Car Entertainment System **CED750/55/98/51**

Service
Service
Service



Service Manual

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CLASS 1
LASER PRODUCT

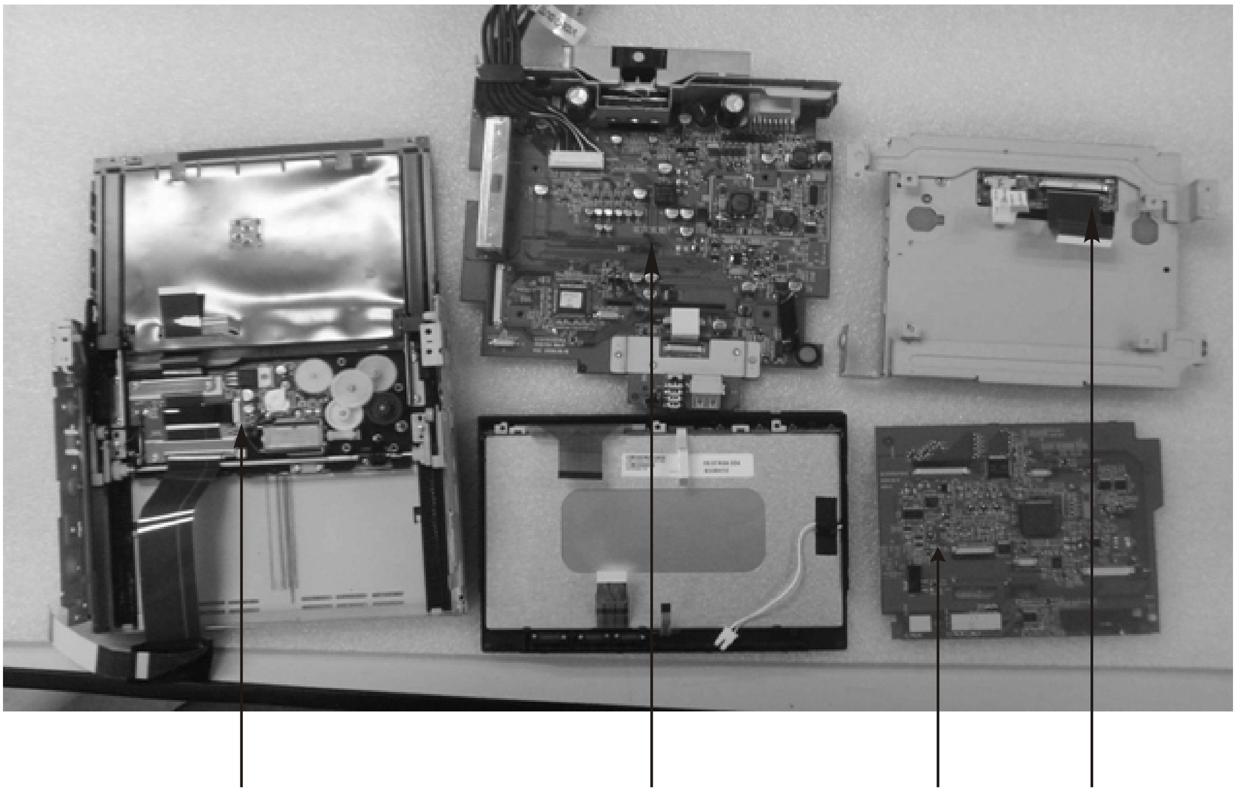
Published by DB-SL 0950 Service Audio Printed in The Netherlands Subject to modification

3141 785 33263

Version 1.3

PHILIPS

Location of PCBS



VERSION VARIATIONS:

Type/Versions	CED750										
Board inused: / Service policy	/55										
MAIN BOARD	C										
SERVO BOARD	M										
MOTOR BOARD	C										
TFT DRIVER BOARD	C										

Type/Versions	CED750										
Features / Feature diffrence	/55										

* TIPS:C--Component Lever Repair.
M--Module Lever Repair
√ --Used

Specifications

General

Power supply:	12V DC(11V-16V) negative groud
Fuse:	15A
Suitable speaker impedance:	4-8Ω
Maximum power output:	50W×4channels
Continous power out:	24W×4channels(4Ω 10% T.H.D.)
Pre-Amp output voltage:	2.0V(CD play mode;1kHz,0dB,10kΩ load)
Subwoofer output voltage:	2.0V(CD play mode)
Aux-in level:	⩾500mV
Dimensions(W×H×D):	188×58×193mm
Weight:	2.5kg

Disc Player

System:	Disc digital audio system
Frequency response:	20Hz-20k Hz
Signal/noise ratio:	﹥75dB
Total harmonic distortion:	Less than 0.3%(1KHz)
Channel separation:	﹥55dB
Video signal for mat:	NTSC/PAL/AUTO
Video output:	1+/0.2V

LCD

Screen size:	7inches(16:9)
Display resolution:	480×234 dots
Active area:	154.08×86.58mm
Dot pitch:	0.107×0.370mm
Contrast ratio:	350
Brightness:	200cd/m

Bluetooth

Communication system:	Bluetooth Standard version 2.0
Output:	Bluetooth Standard Power Classer 2
Maximum communication range	Line of sight approx.10m
Frequency band:	2.4GHz band(2.4000GHz-2.4835GHz)
Modulation method:	FHSS
Compatible bluetooth profiles	Hands-Free Profile(HFP) Hands-Free Profile(HFP) Advanced Audio Distribution Profile(A2DP) Audio Video Remote Control Profile(AVRCP)
Supported codecs Receive Transmit	SBC(Sub Band Codec),MP3 SBC(Sub Band Codec)

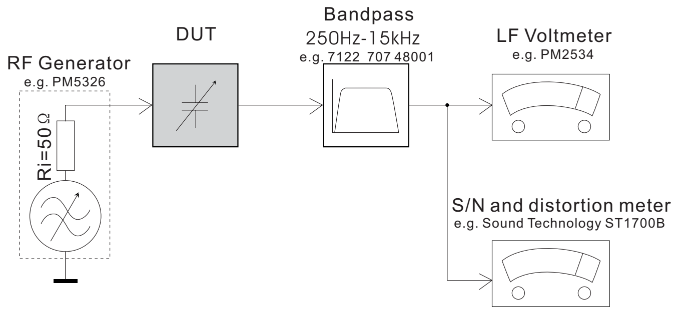
Tuner

Frequency range —FM	87.5-108.0MHz(Eur) 65.0-74.0MHz（OIRT） 87.5-107.9MHz(Ame)
Frequency range —AM(MW)	522-1620KHz(Eur) 530-1710MHz(Ame)
Usable sensitivity —FM	8uV
Usable sensitivity —AM(MW)(S/N=20db)	30uV
Frequency response	30Hz-15KHz
Stereo separation	30db(1KHz
Signal/noise ratio	﹥55db

Note:Specifications and design are subject to change without notice for product improvements.

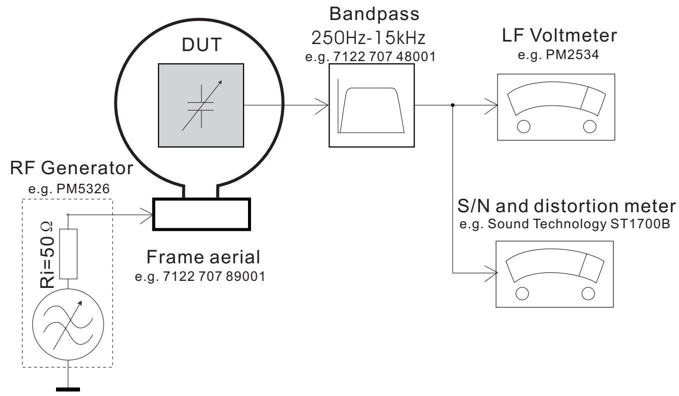
MEASUREMENT SETUP

Tuner FM



Use a bandpass filter to eliminate hum(50Hz,100Hz) and disturbance from the pilottone(19kHz,38kHz).

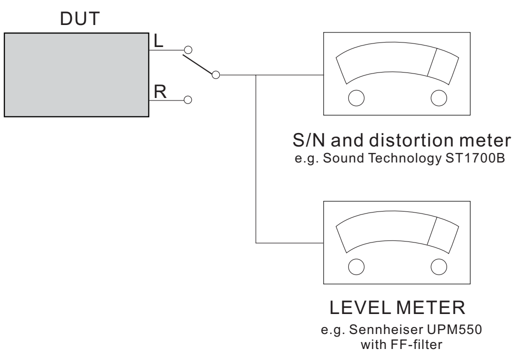
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday's cage.
Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz,100Hz).

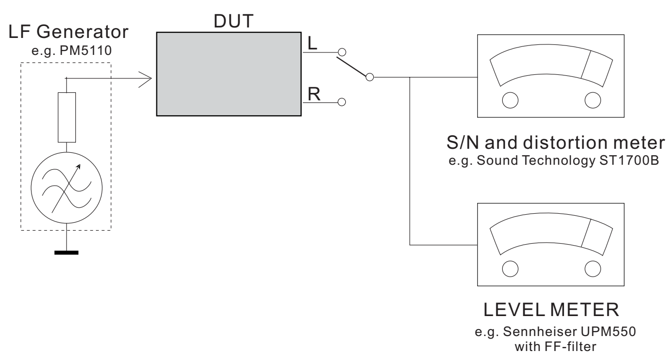
CD

Use Audio Signal Disc SBC429 4822 397 30184
(replaces test disc 3)



Cassette

Use Universal Test Cassette **CrO2** SBC419 4822 397 30069
or Universal Test Cassette Fe SBC420 4822 397 30071



SERVICE AIDS

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

ESD

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used

Safety components are marked by the symbol △ .

CLASS 1
LASER PRODUCT

INFORMATION ABOUT LEAD-FREE SOLDERING

Philips CE is producing lead-free sets from 1.1.2005 onwards.
IDENTIFICATION:

Regardless of special logo (not always indicated) one must treat all sets from 1 Jan 2005 onwards, according next rules:

- On our website **www.atyourservice.ce.Philips.com** you find more information to:
  - BGA-de-/soldering (+ baking instructions)
  - Heating-profiles of BGAs and other ICs used in Philips-sets
  - Lead free

  You will find this and more technical information within the "magazine", chapter "workshop news".

For additional questions please contact your local repair-helpdesk.

SERVICE INSTRUCTION

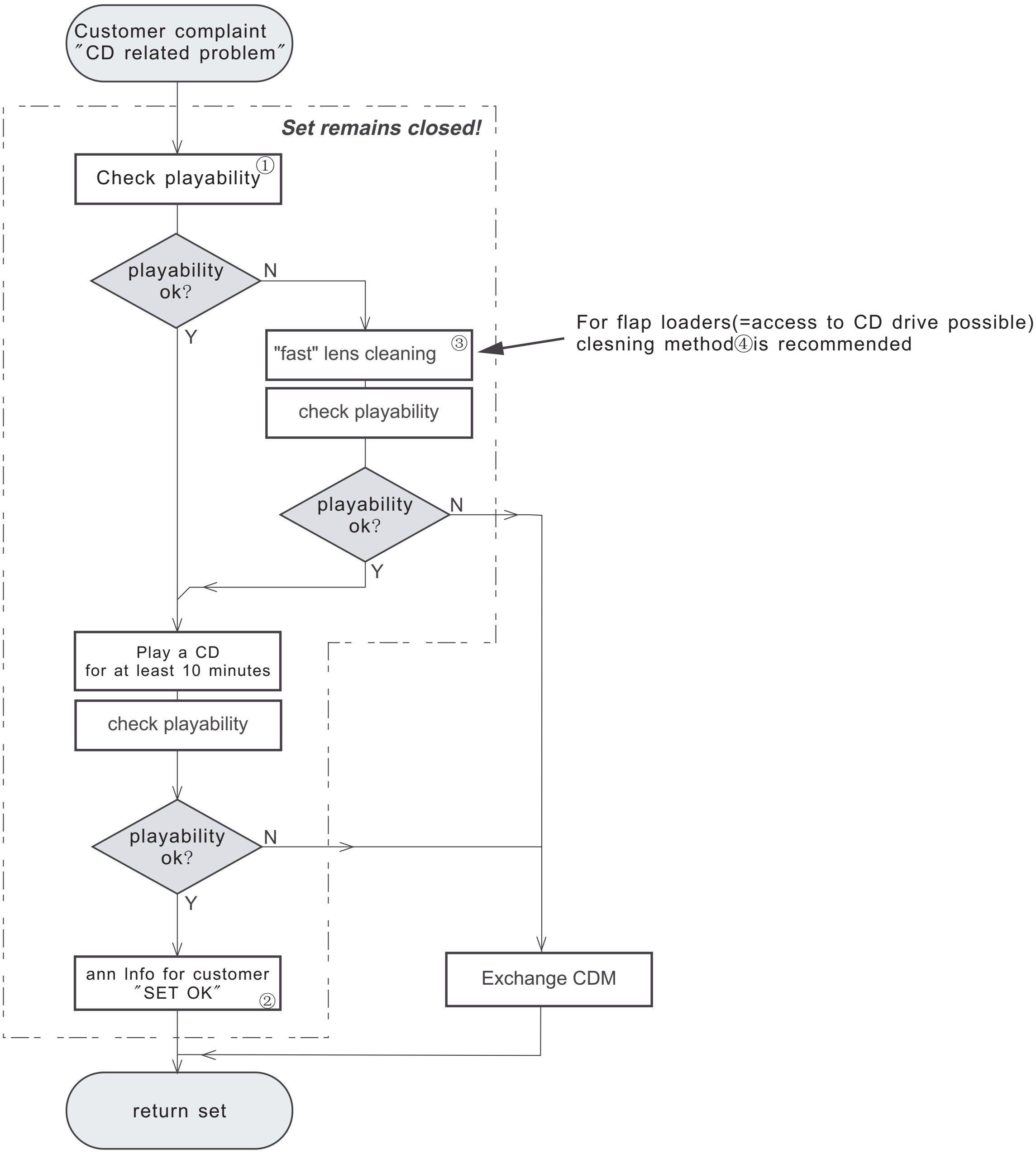
Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the AC Power lead for external damage.
- Check the strain relief of the AC Power cord for proper function.
- Check the electrical DC resistance between the AC Power Plug and the secondary side (only for sets which have a AC Power isolated power supply):

1. Unplug the AC Power cord and connect a wire between the two pins of the AC Power plug.
2. Set the AC Power switch to the "on" position (keep the AC Power cord unplugged!).
3. Measure the resistance value between the pins of the AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be larger than 4.5 Mohm (For U.S. it should be between 4.2 Mohm and 12 Mohm).
4. Switch "off" the set, and remove the wire between the two pins of the AC Power plug.

- Check the cabinet for defects, to avoid touching of any inner parts by the customer.

INSTRUCTIONS ON CD PLAYABILITY



①-④For description-see following pages

INSTRUCTIONS ON CD PLAYABILITY

①

PLAYABILITY CHECK

For sets which are compatible with **CD-RW** discs
use CD-RW Printed Audio Disc 7104 099 96611
TR 3 (Fingerprint)
TR 8 (600μ Black dot) **maximum at 01:00**

• playback of these two tracks without audible disturbance
playing time for: Fingerprint ≥10seconds
Black dot from 00:50 to 01:10
• jump forward/backward (search) within a reasonable time

For all other sets
use CD-DA SBC 444A..................................4822 397 30245
TR 14 (600μ Black dot) **maximum at 01:15**
TR 19 (Fingerprint)
TR 10 (1000μ wedge)

• playback of all these tracks without audible disturbance
playing time for: 1000μ wedge ≥10seconds
Fingerprint ≥10seconds
Black dot from 01:05 to 01:25
• jump forward/backward (search) within a reasonable time

②

CUSTOMER INFORMATION

It is proposed to add an addendum sheet to the set which informs the customer that the set has been checked carefully - but no fault was found.
The problem was obviously caused by a scratched, dirty or copy-protected CD. In case problems remain, the customer is requested to contact the workshop directly.
The lens cleaning (method ③) should be mentioned in the addendum sheet.

The final wording in national language as well as the printing is under responsibility of the Regional Service Organizations.

④

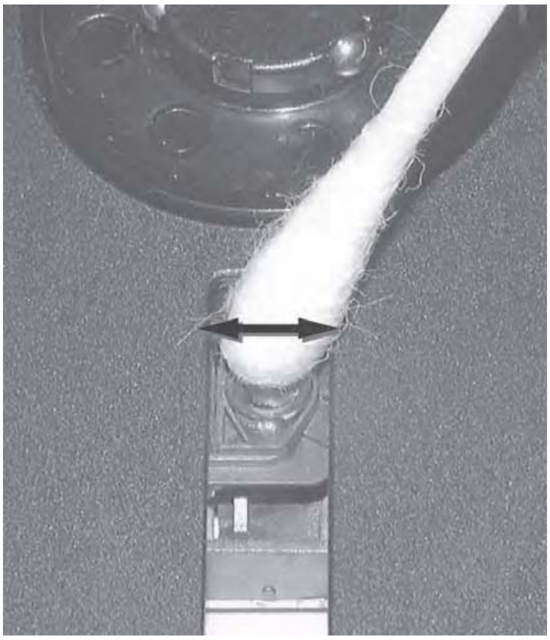
LIQUID LENS CLEANING

Before touching the lens it is advised to clean the surface of the lens by blowing clean air over it. This to avoid that little particles make scratches on the lens.

Because the material of the lens is synthetic and coated with a special anti-reflectivity layer, cleaning must be done with a non-aggressive cleaning fluid. It is advised to use “Cleaning Solvent

The actuator is a very precise mechanical component and may not be damaged in order to guarantee its full function. Clean the lens gently (don’t press too hard) with a soft and clean cotton bud moistened with the special lens cleaner.

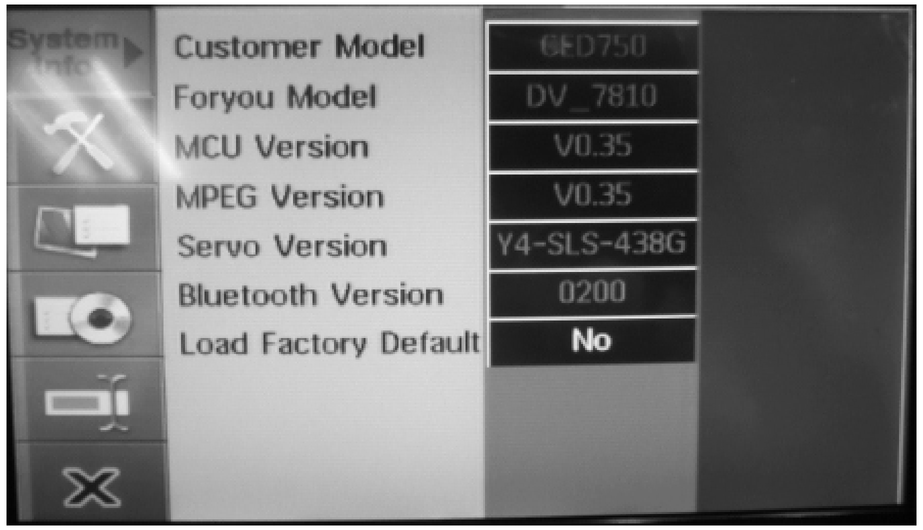
The direction of cleaning must be in the way as indicated in the picture below.



Software version check & upgrade

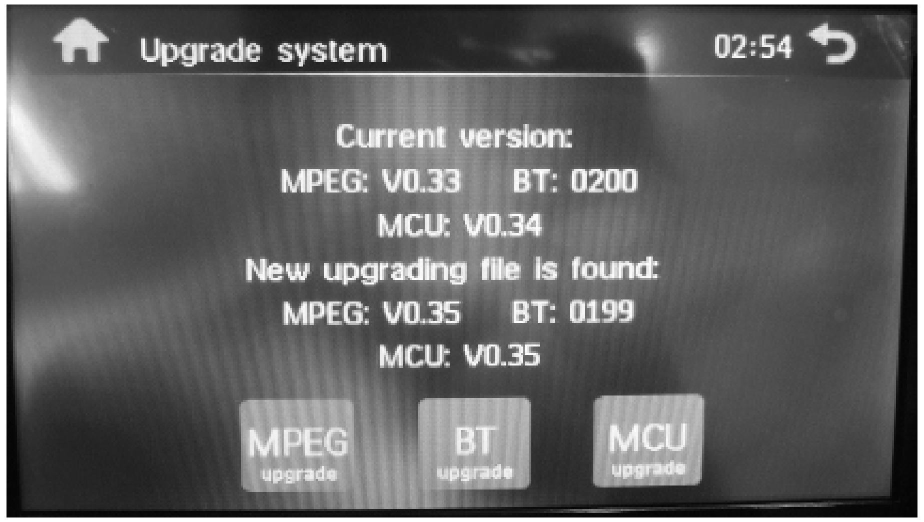
Software version check

Open the Settings menu, and then press the numeric keys ?43210?on the remote control in turn. A picture contained version information will be displayed.

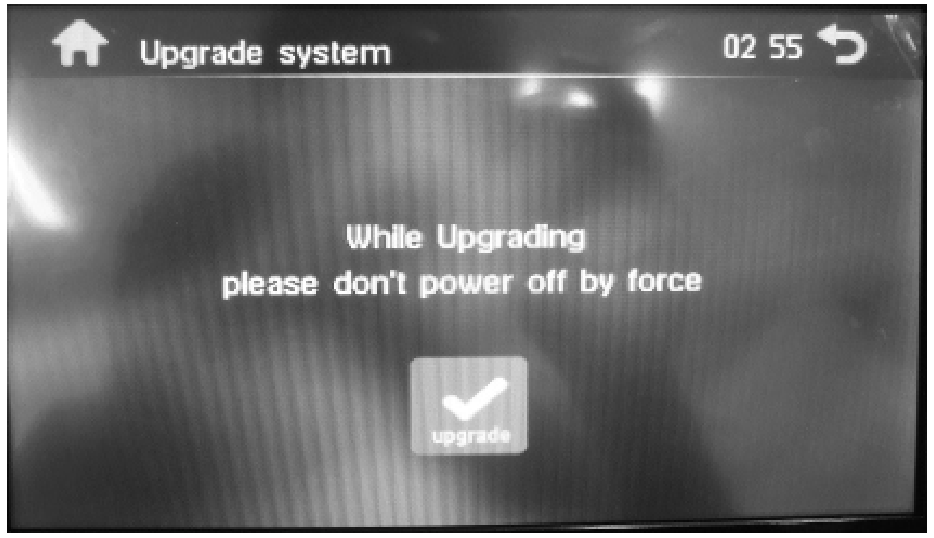


MPEG upgrade

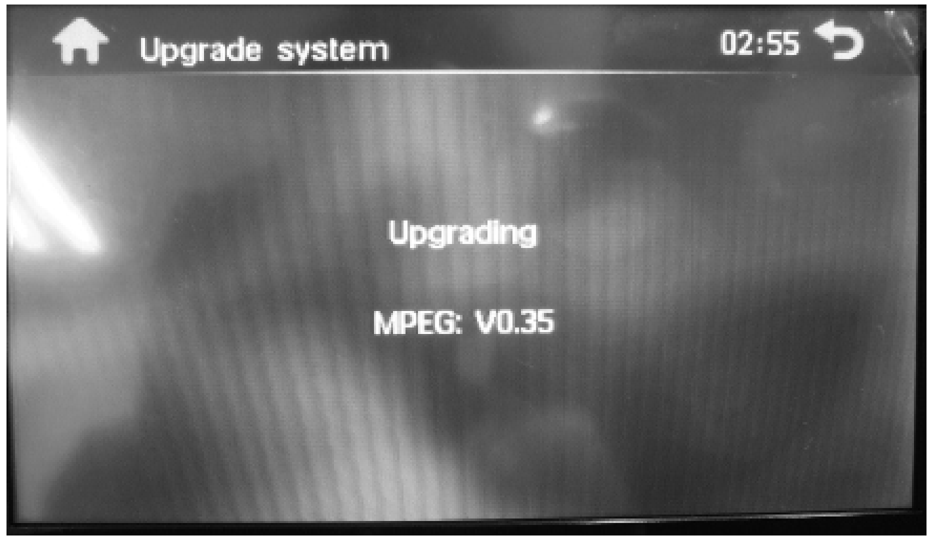
1. First, copy the upgrade files to SD card or USB storage device. To ensure success, add some media files larger than 8M such as MP3 to the storage device meanwhile.
   Upgrade Files: MPEG.BIN   MCU.BIN   BT.BIN
2. Insert the storage device contained upgrade files into the player and the player will load the upgrade files automatically. Following picture will be displayed.



3. Following picture will be displayed after you select the 'MPEG upgrade' option.



4. Touch 'upgrade' to start upgrade process and following picture will be displayed. Meanwhile, Beep tone can be heard during the upgrade process.



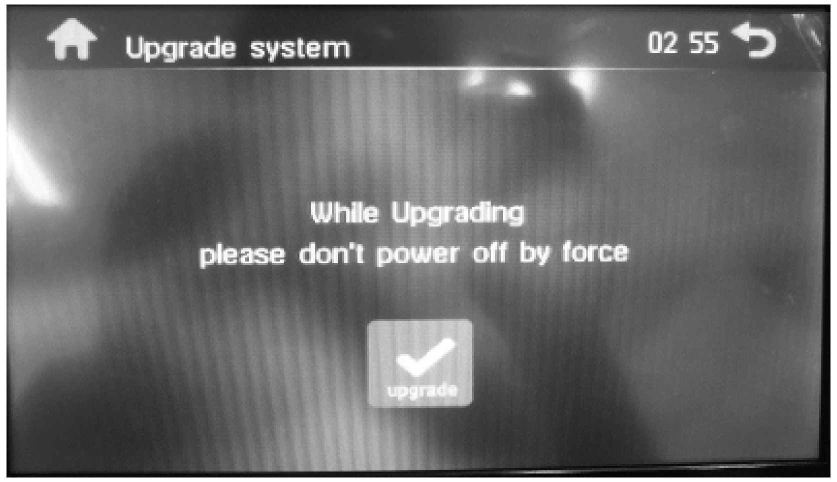
BT upgrade

1. First, copy the upgrade files to SD card or USB storage device. To ensure success, add some media files larger than 8M such as MP3 to the storage device meanwhile.
   Upgrade Files: MPEG.BIN   MCU.BIN   BT.BIN
2. Insert the storage device contained upgrade files into the player and the player will load the upgrade files automatically. Following picture will be displayed.

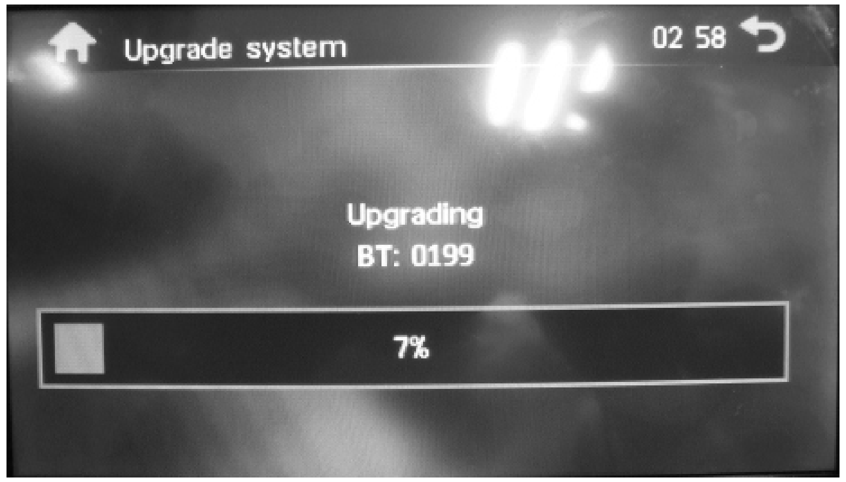
Software version check & upgrade



3. Following picture will be displayed after you select the 'BT upgrade' option.



5. Touch 'Upgrade' to start upgrade process and following picture will be displayed.



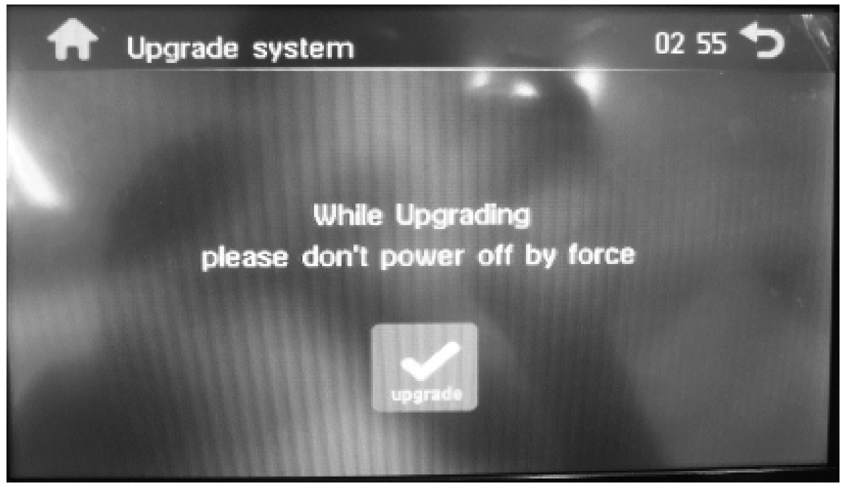
MCU upgrade

1. First, copy the upgrade files to a SD card or USB storage device. To ensure success, add some media files larger than 8M such as MP3 to the storage device meanwhile.
   Upgrade Files: MPEG.BIN MCU.BIN BT.BIN

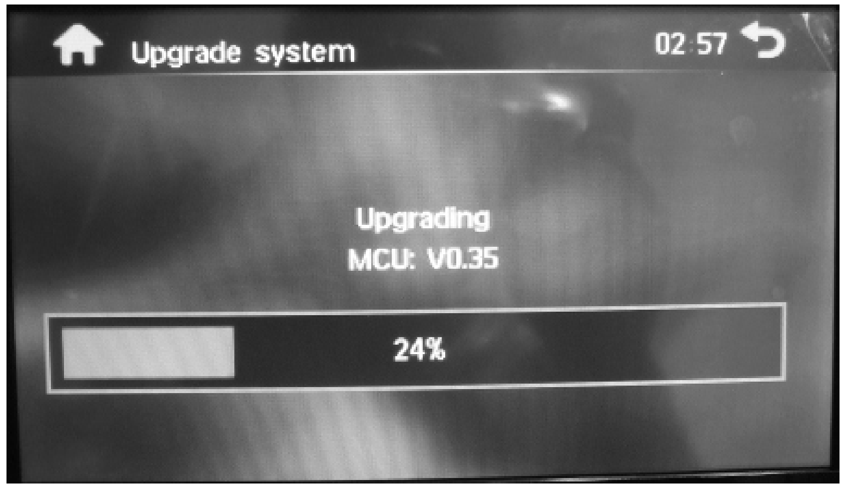
2. Insert the storage device contained upgrade files into the player and the player will load the upgrade files automatically. Following picture will be displayed.



3. Following picture will be displayed after you select the 'MCU upgrade' option.



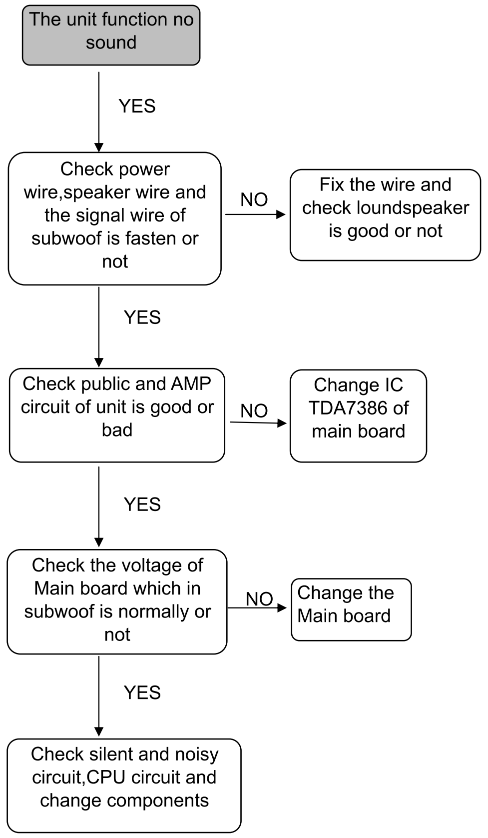
4. Touch 'Upgrade' to start upgrade process and following picture will be displayed.

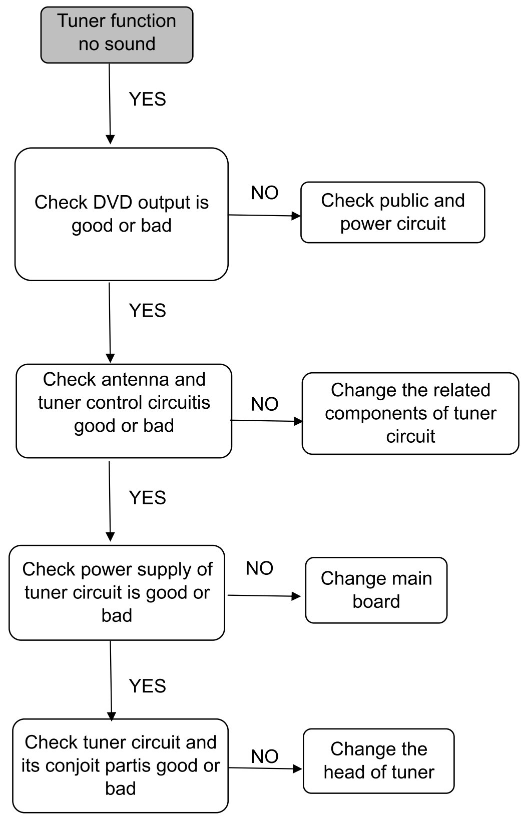


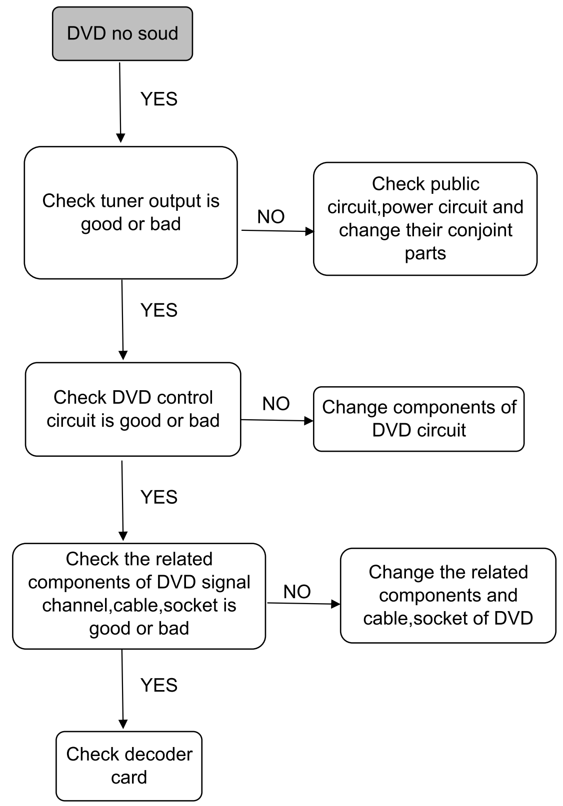
5. When the upgrade process of MCU has been done, the player will reset automatically and the whole upgrade process is done.

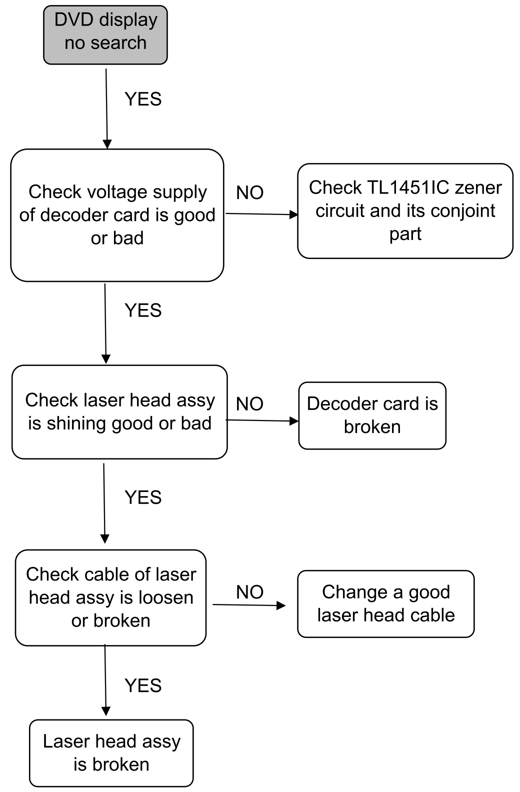
2-3

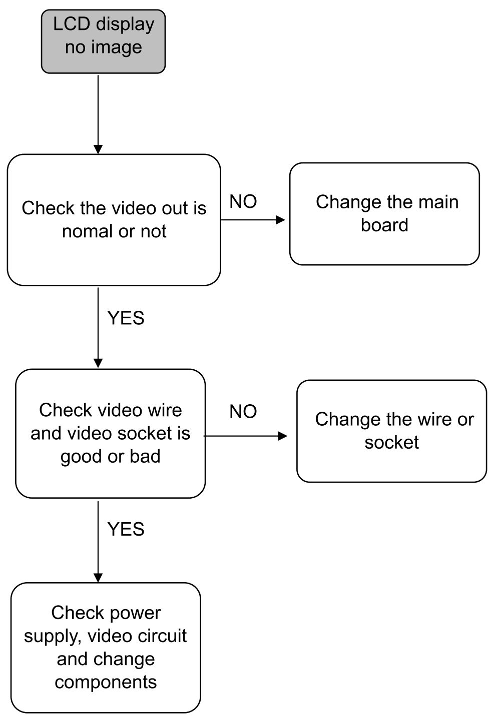
Malfunction Check Chart

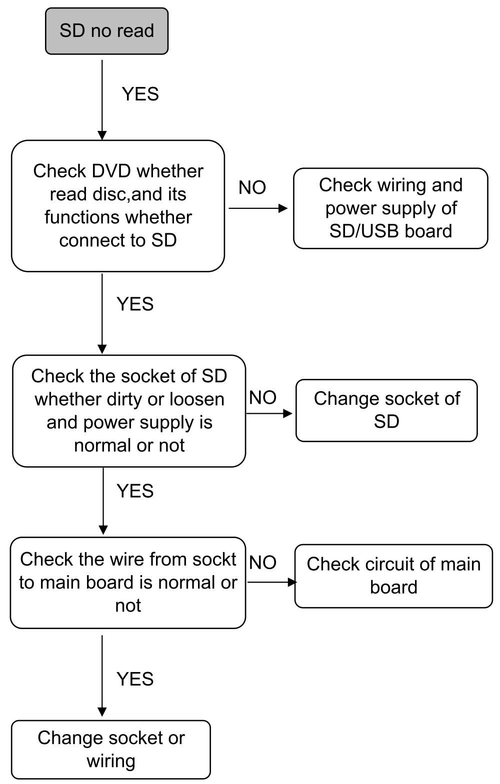


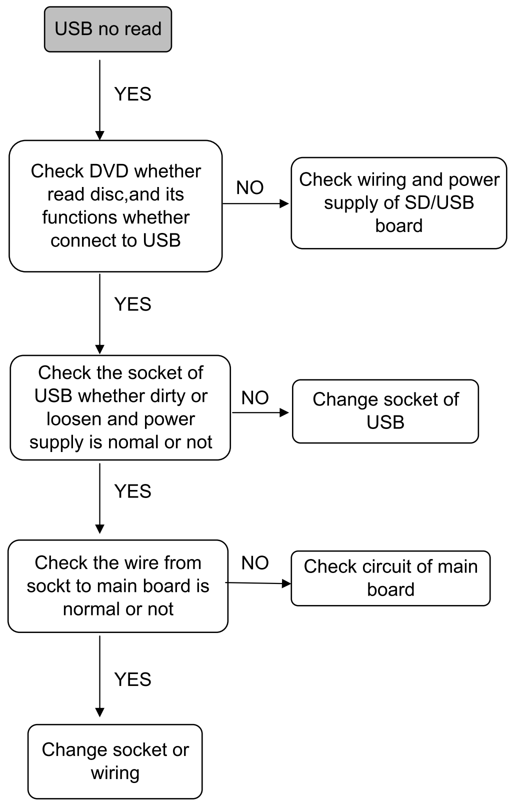


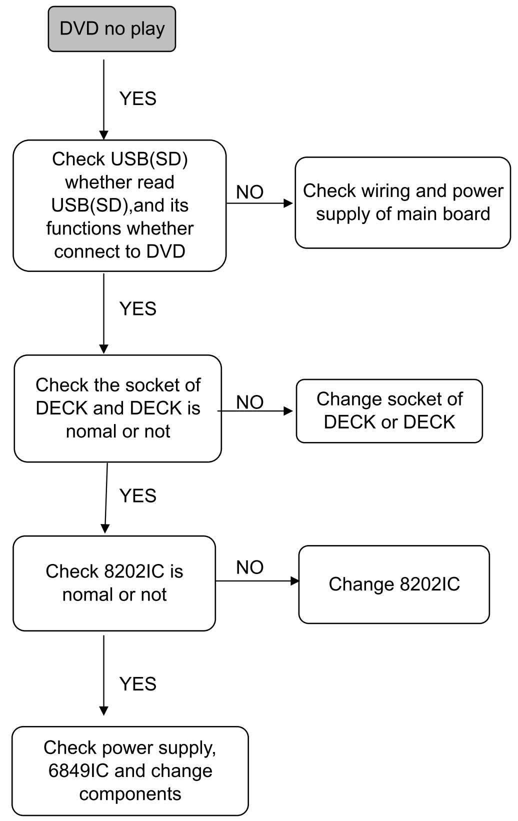








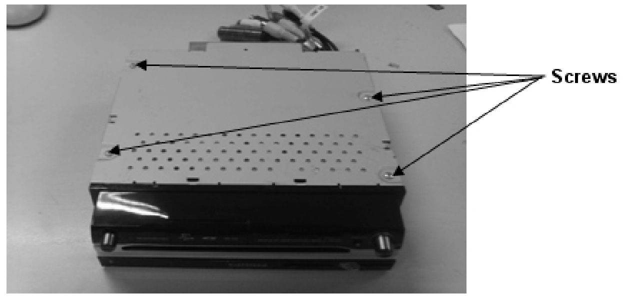




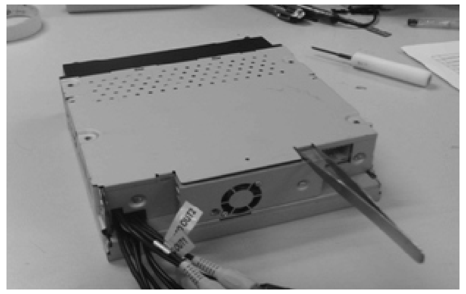
 3-1

Disassembly Diagram

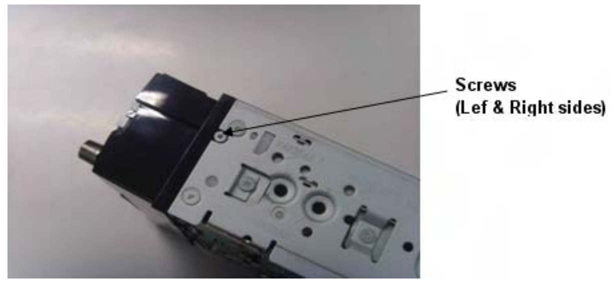
1. Loosen and take out the four screws with a screw-driver.



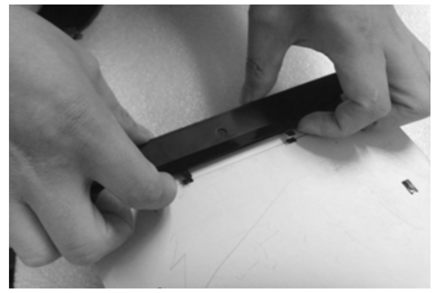
2. Take out the top cover with a forceps.



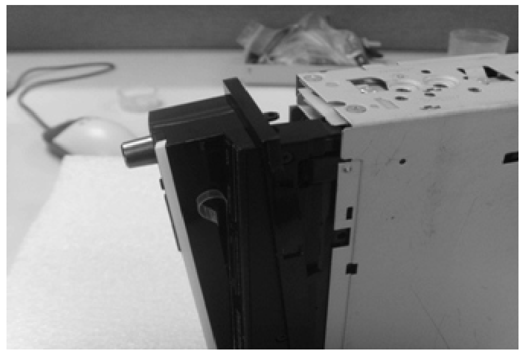
3. Loosen and take out the two screws with a screw-driver.



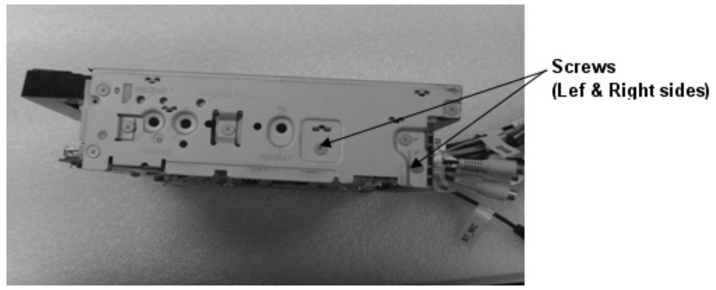
4. Take out the front panel.



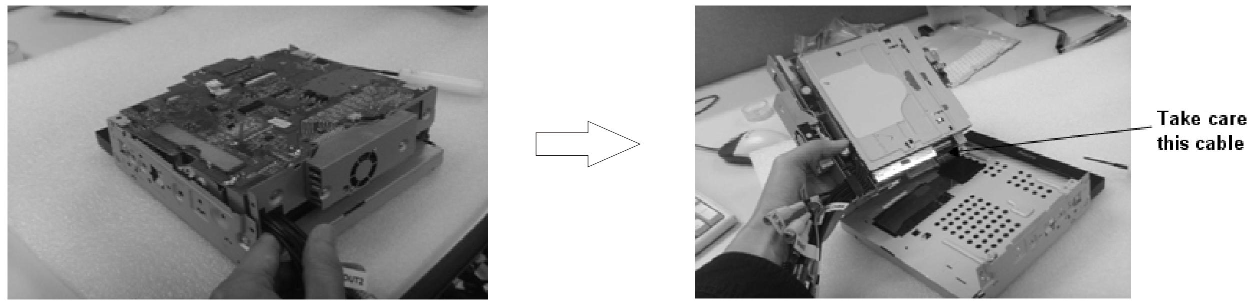
5. Take out the front panel.



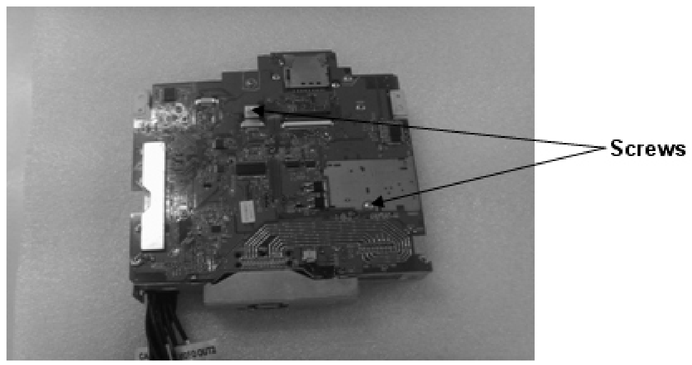
6. Loosen and take out the four screws with a screw-driver.



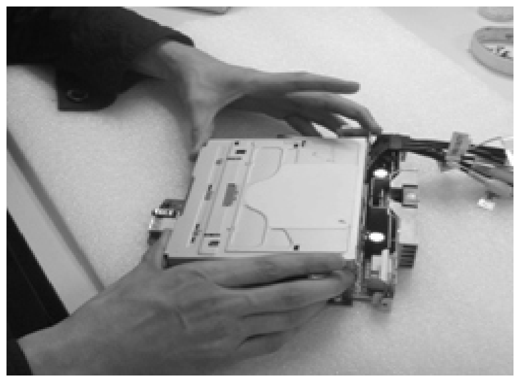
7. Take out the main board.



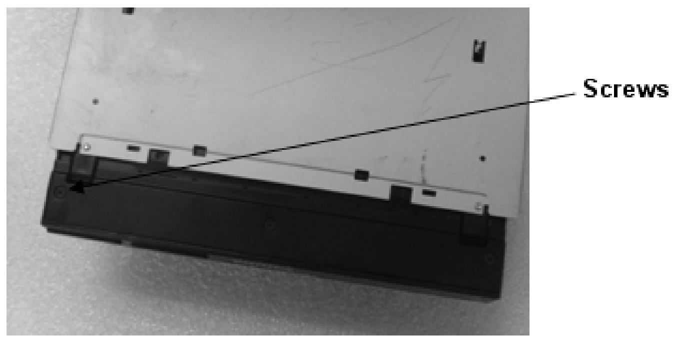
8. Pull out the two pieces of connection-peg to the loader carefully and take out the four screws fastened the loader with a screw-driver.



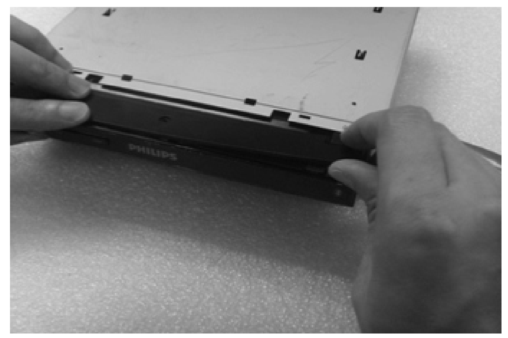
9. Take out the loader.



10. Take out the three screws fastened the top cover of the TFT monitor.



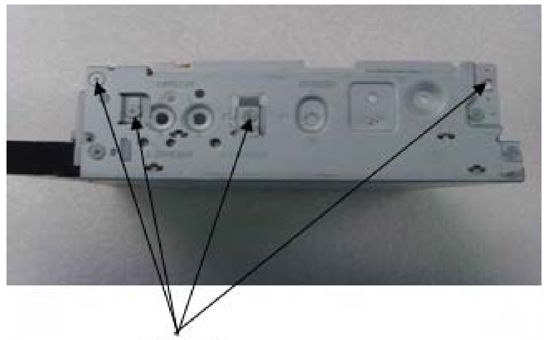
11. Take out the top cover of the TFT monitor.



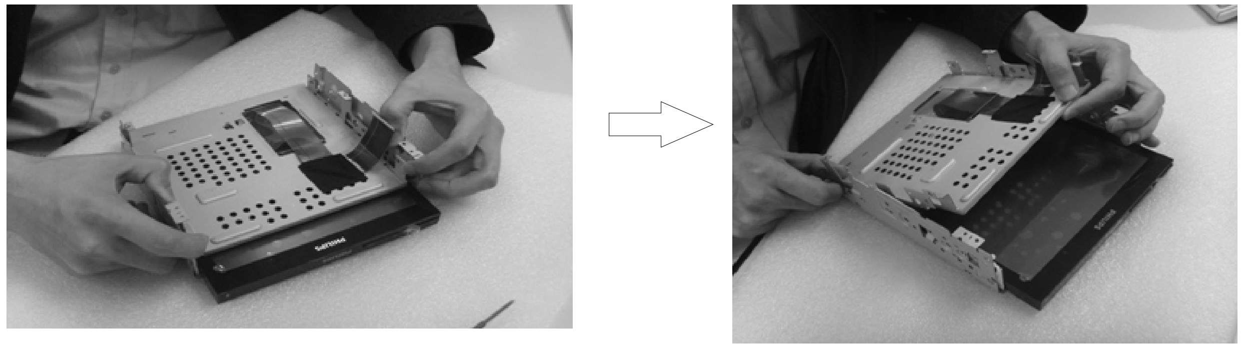
3-2

Disassembly Diagram

12. Take out the eight screws fastened the underprop board.



12. Take out the eight screws fastened the underprop board.



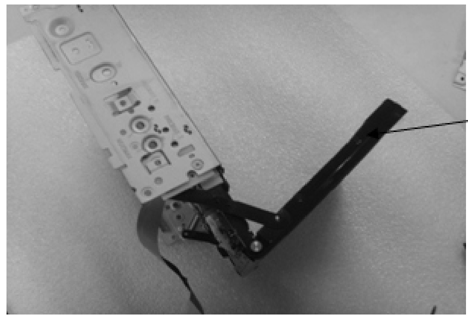
14. Take out the five screws fastened the gear board.



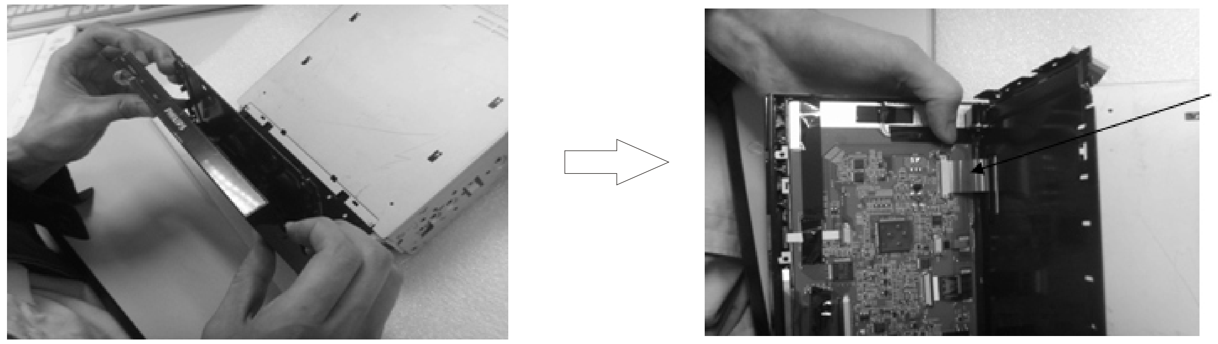
15. Take out the gears.



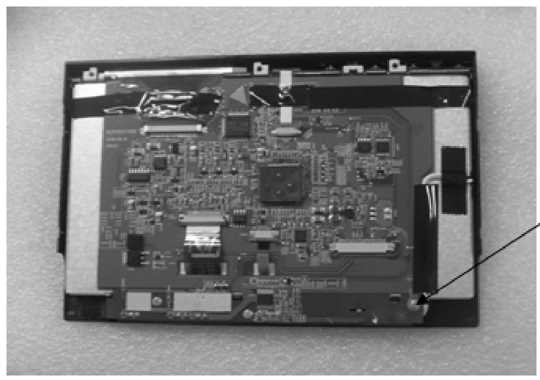
16. Loosen and take out the four screws with a screw-driver.



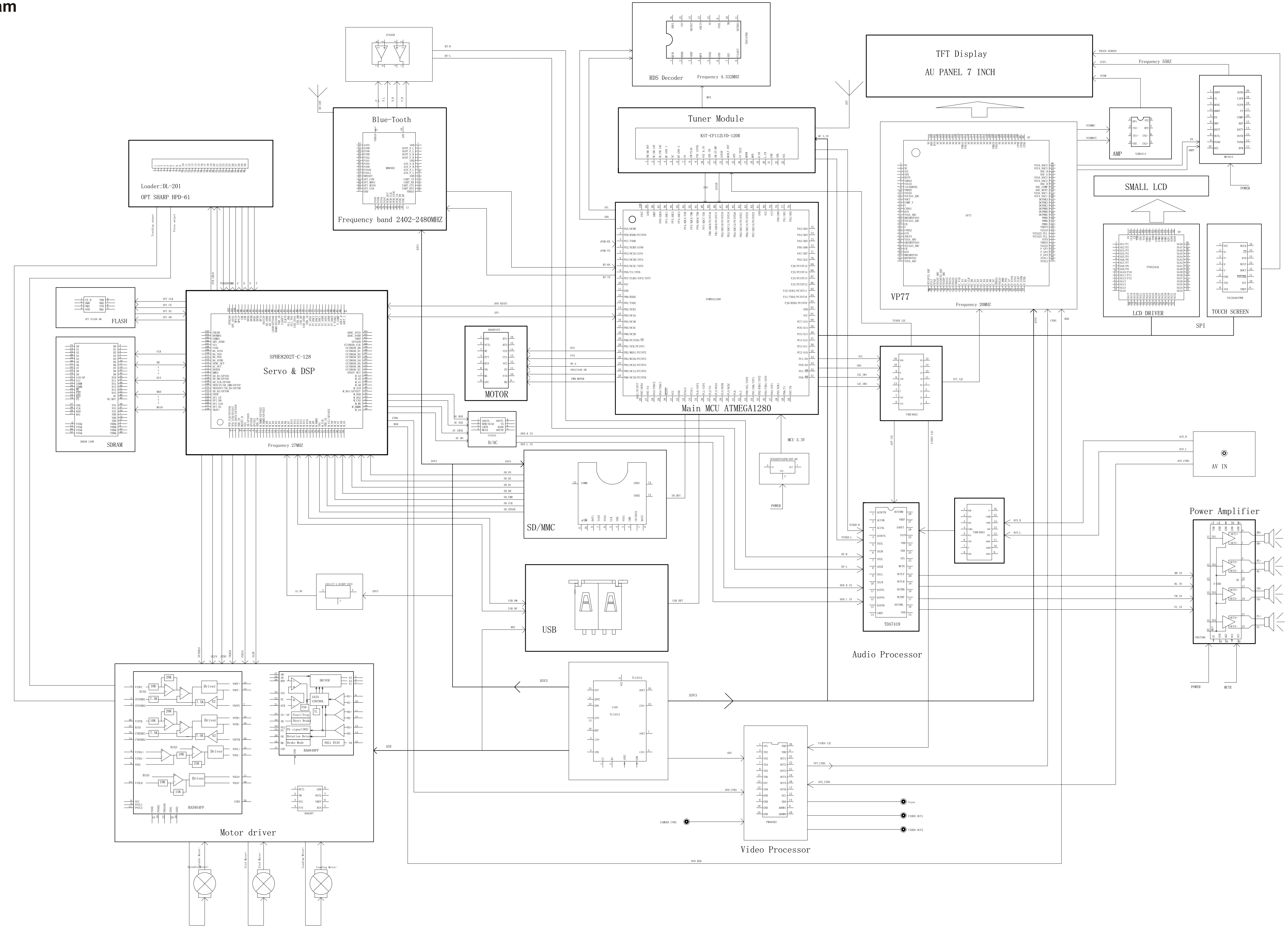
17. Take out the display module.



18. Take out the three screws fastened the TFT driver board and the connection-peg to take out the TFT driver board.

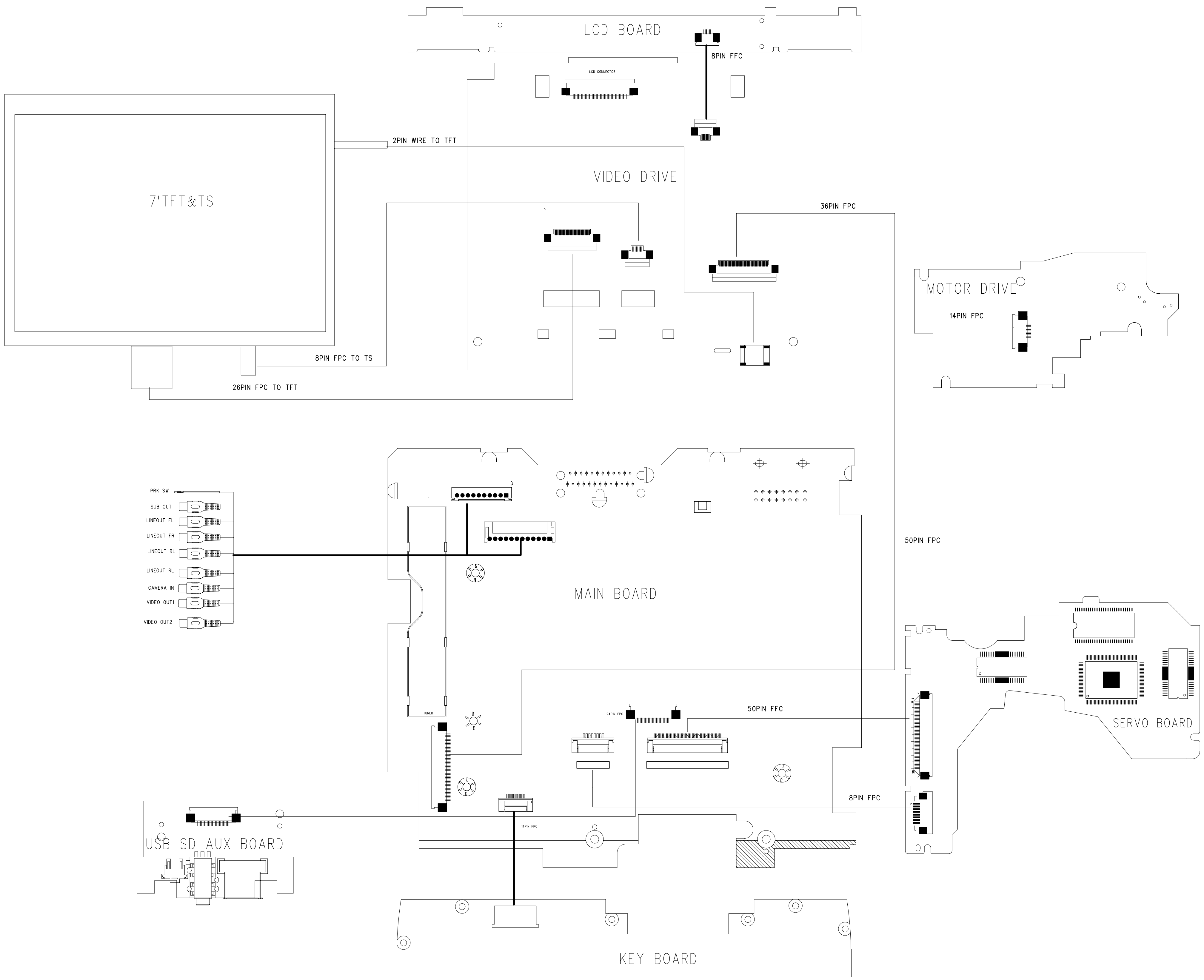


Block Diagram



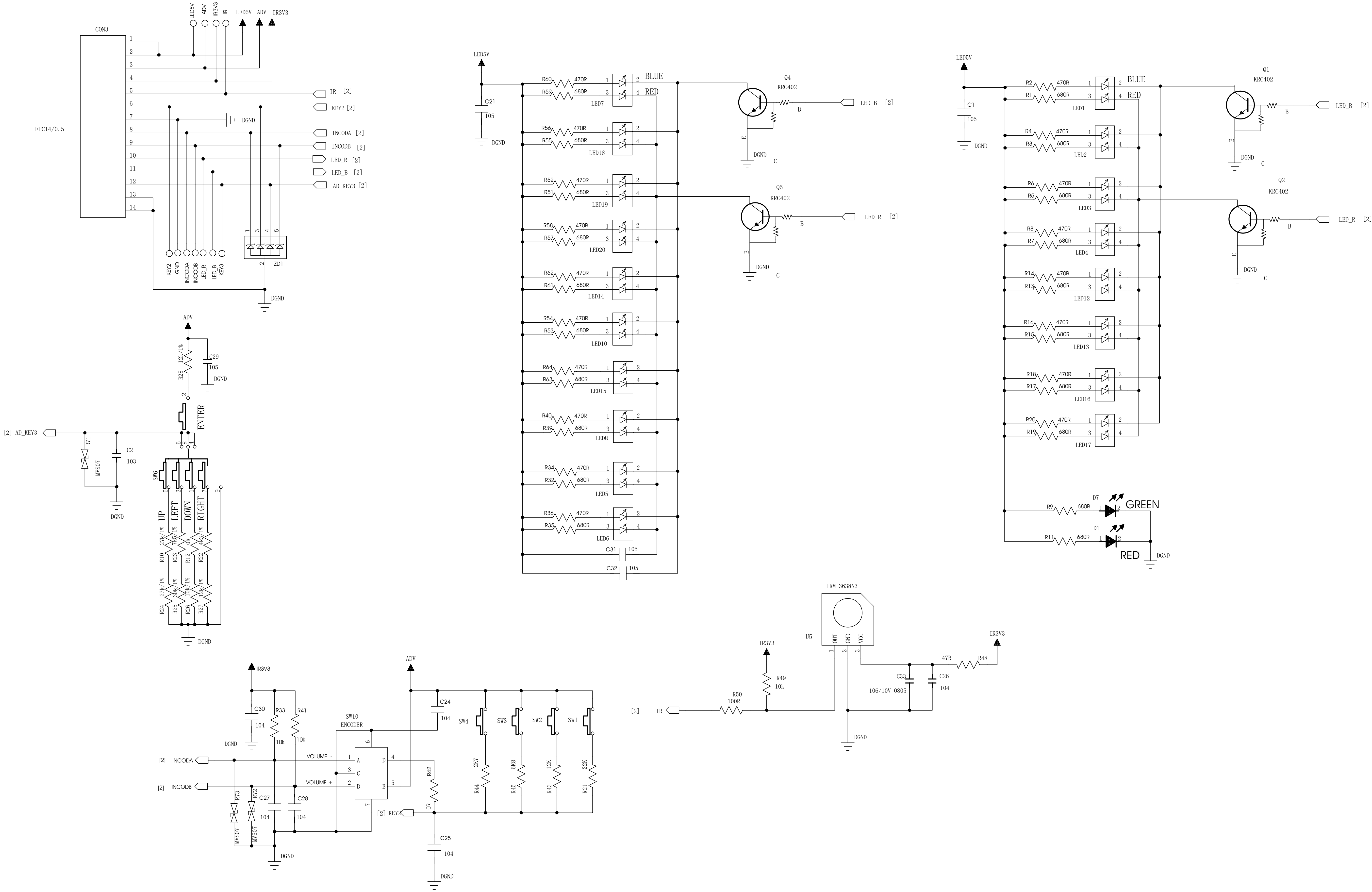
4-2

Wiring Diagram



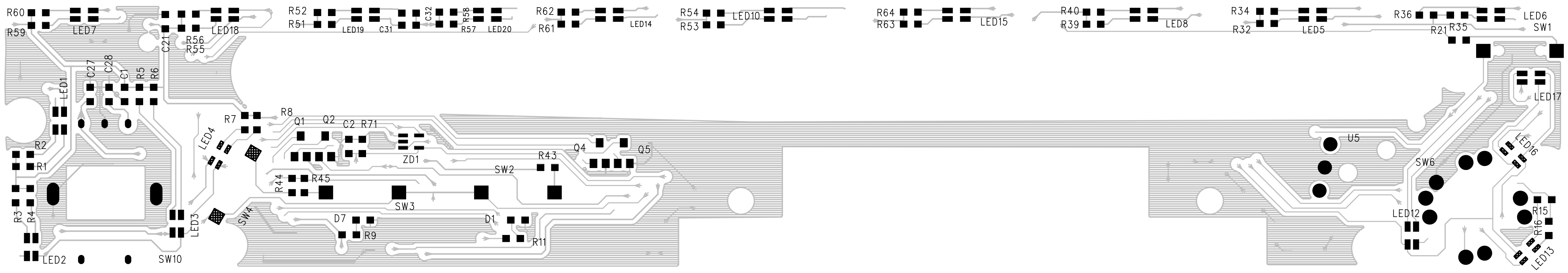
5-1

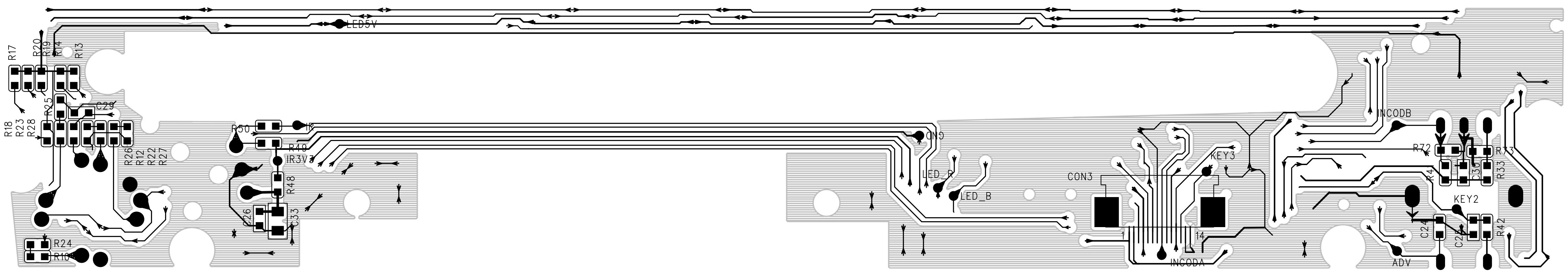
KEY BOARD-Circuit Diagram



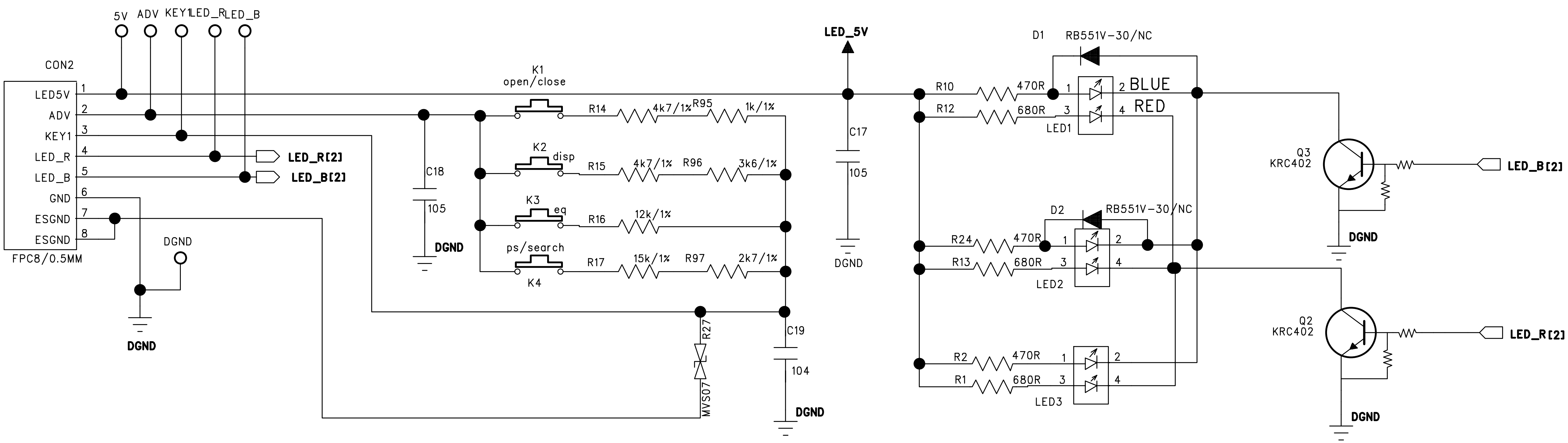
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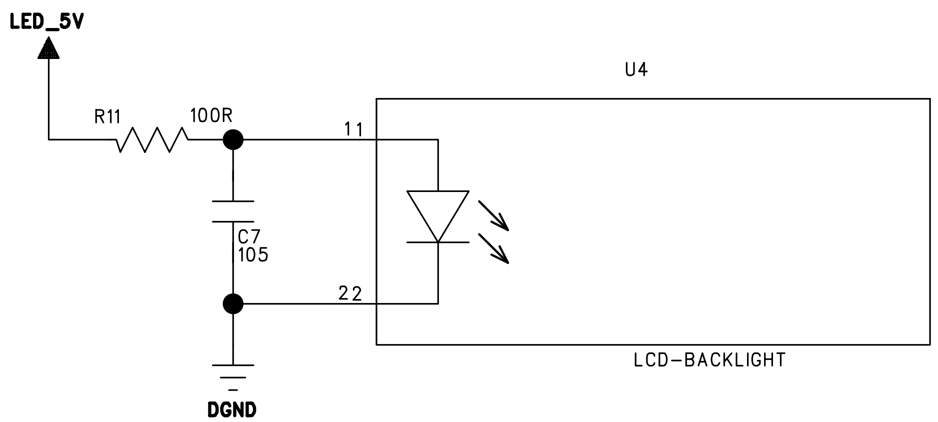
KEY BOARD-Layout Diagram





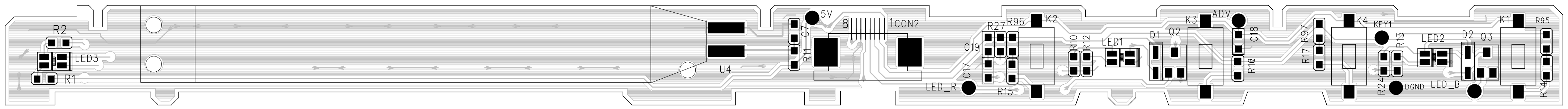
LCD BOARD-Circuit Diagram

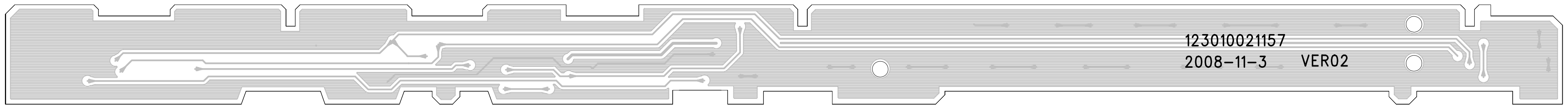




6-2

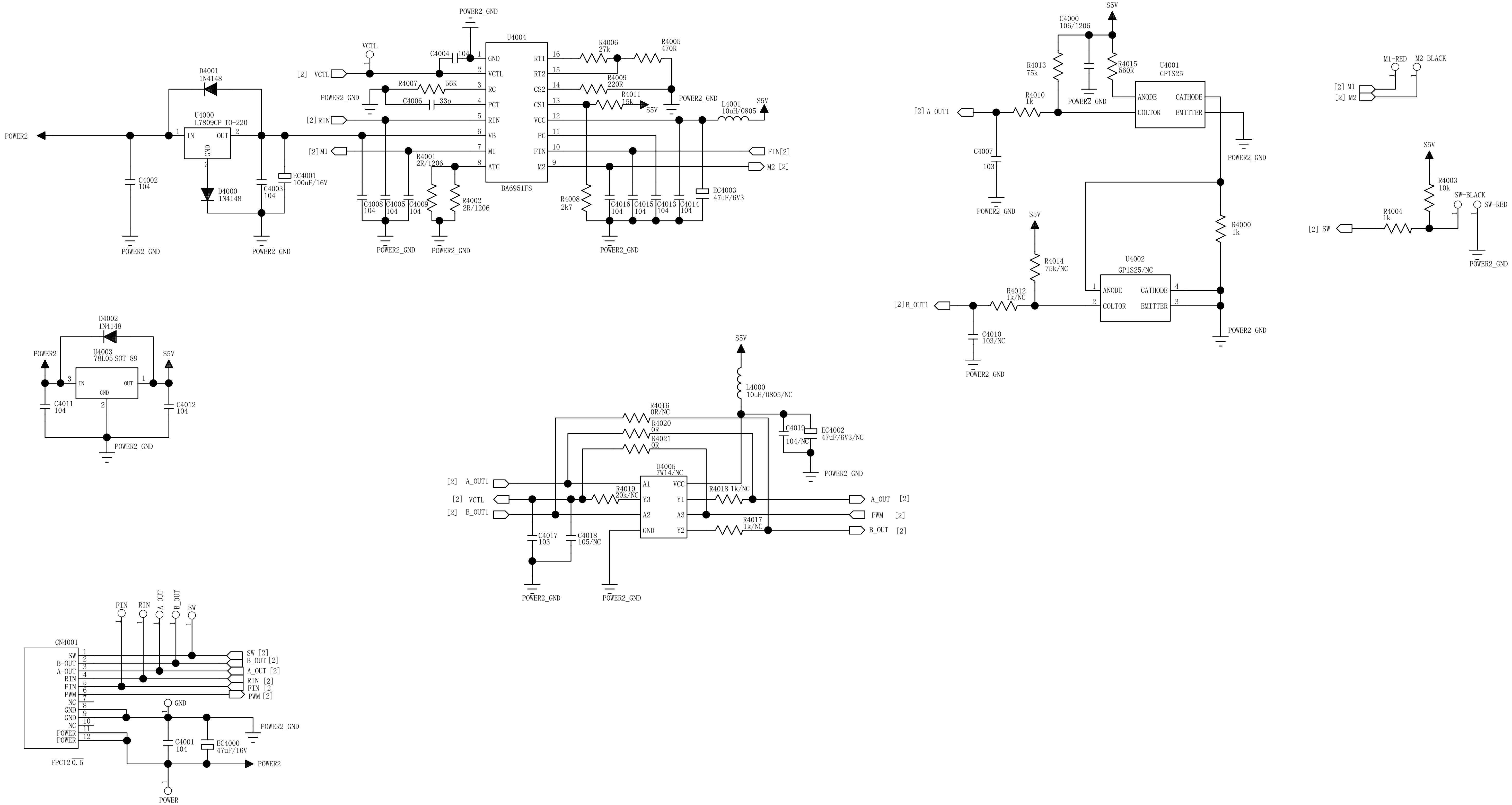
LCD BOARD-Layout Diagram





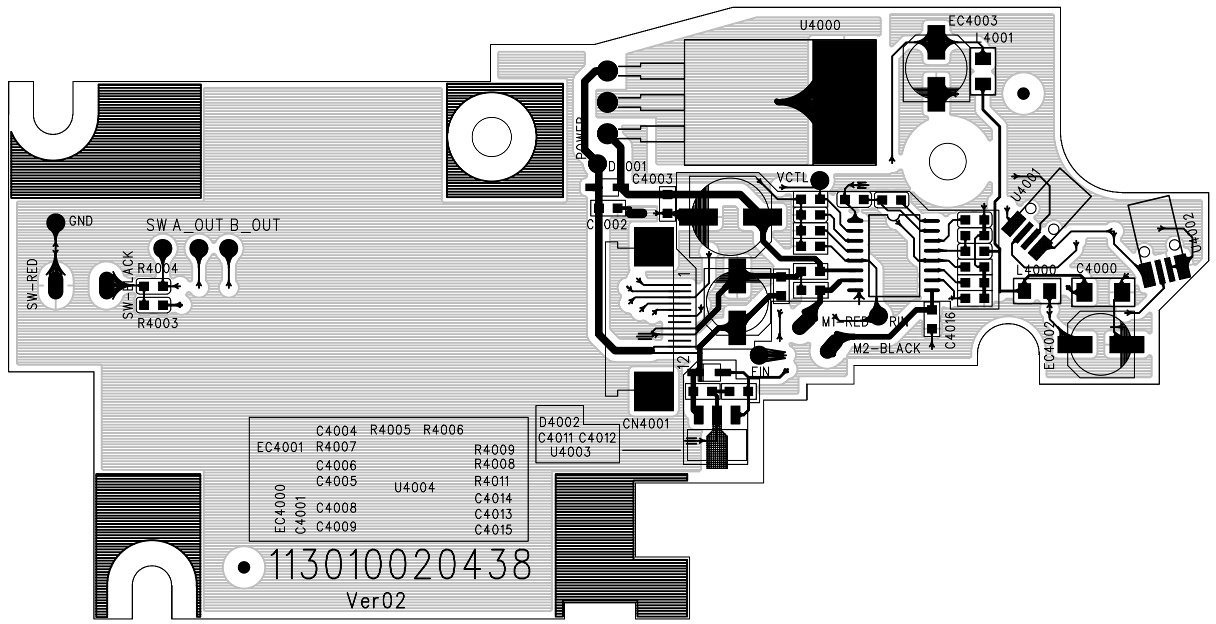
7-1

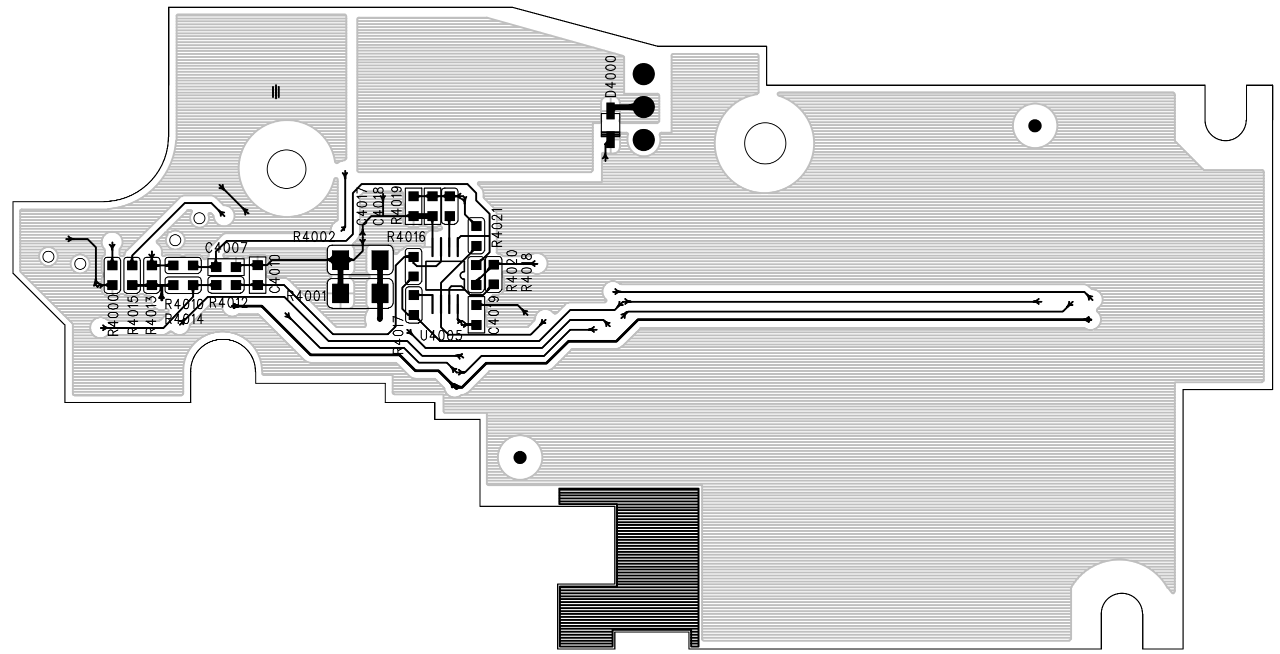
MOTOR BOARD-Circuit Diagram



7-2

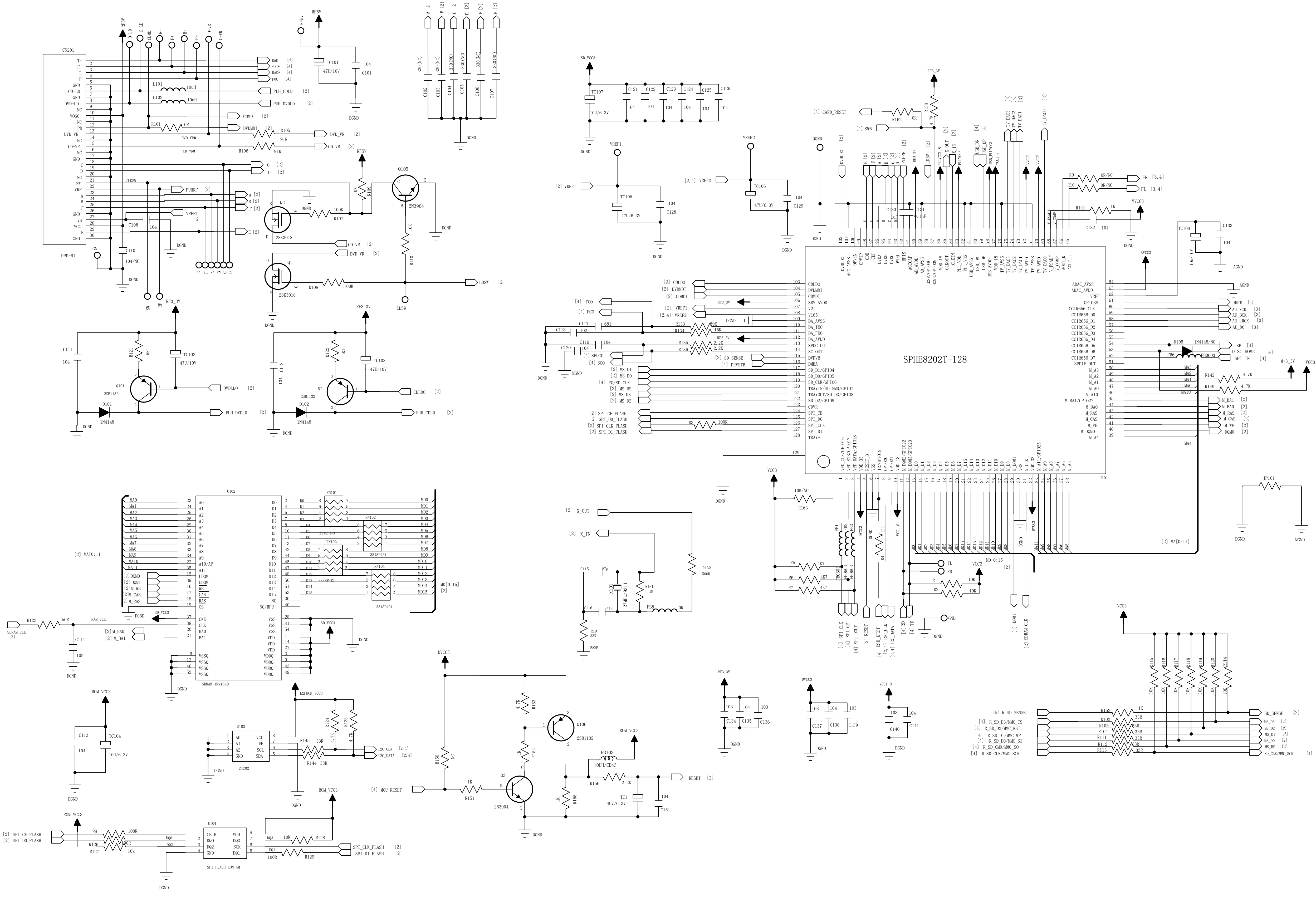
MOTOR BOARD-Layout Diagram





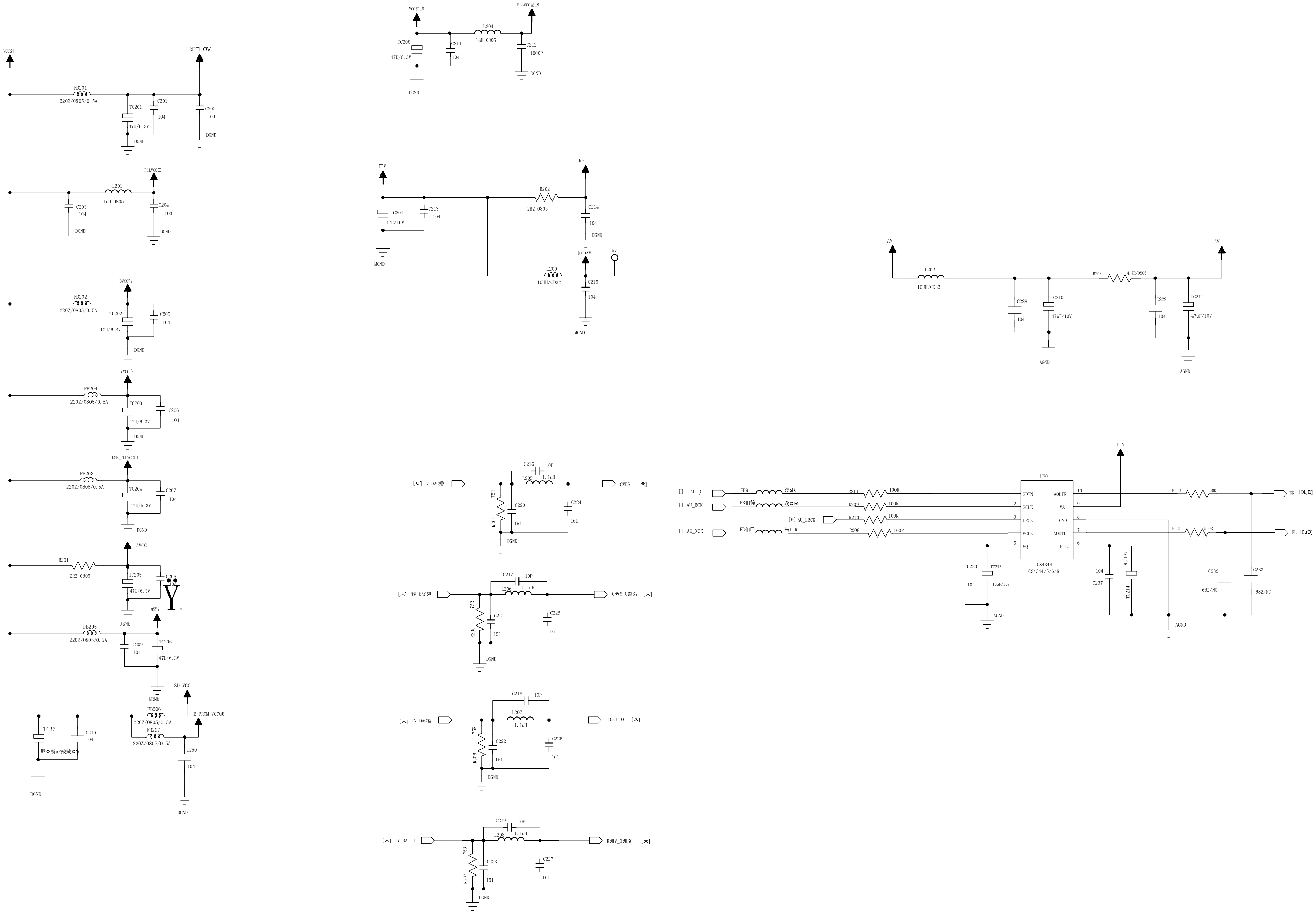
8-1

SERVO BOARD-Circuit Diagram-1



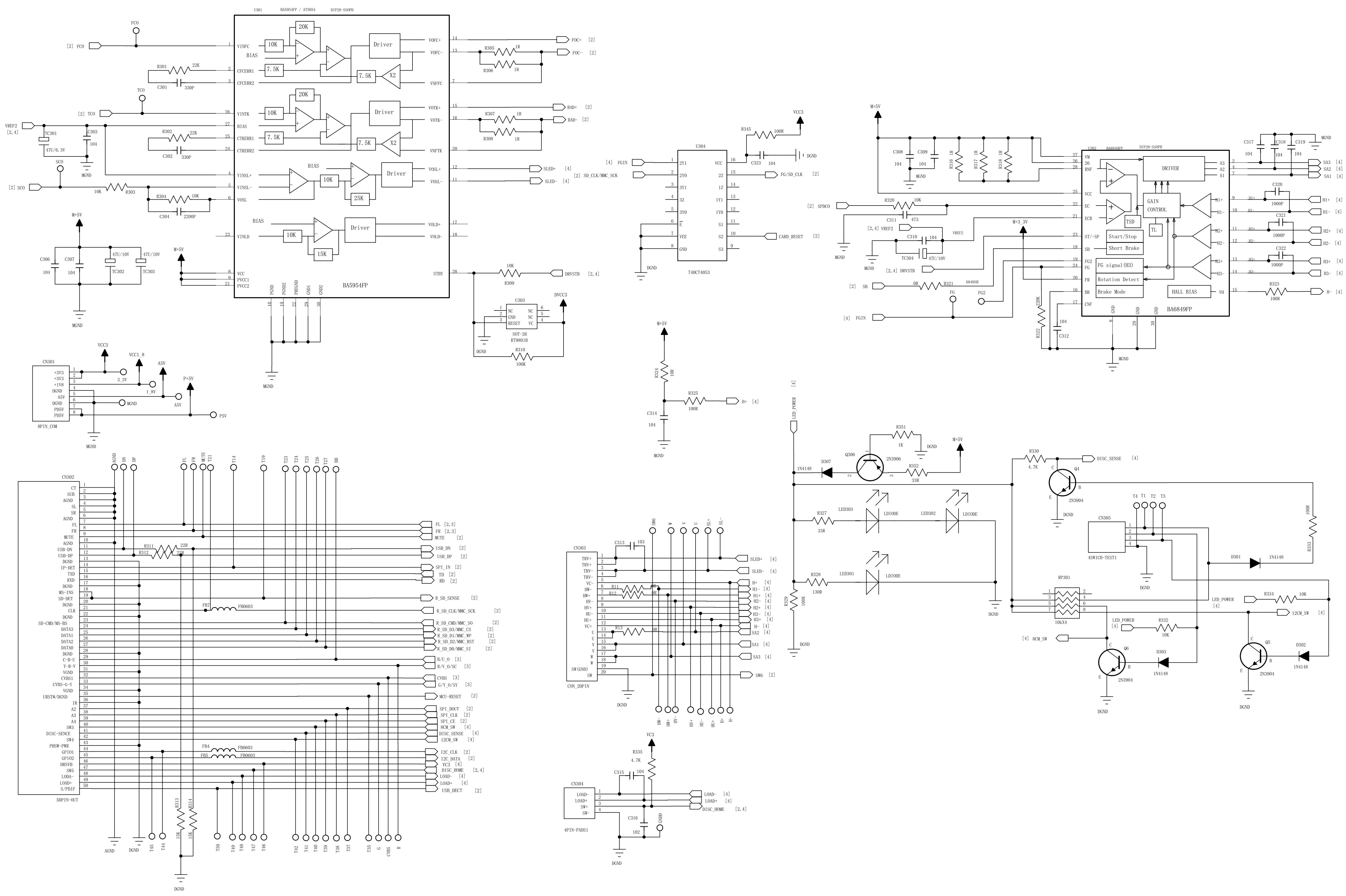
8-2

SERVO BOARD-Circuit Diagram-2



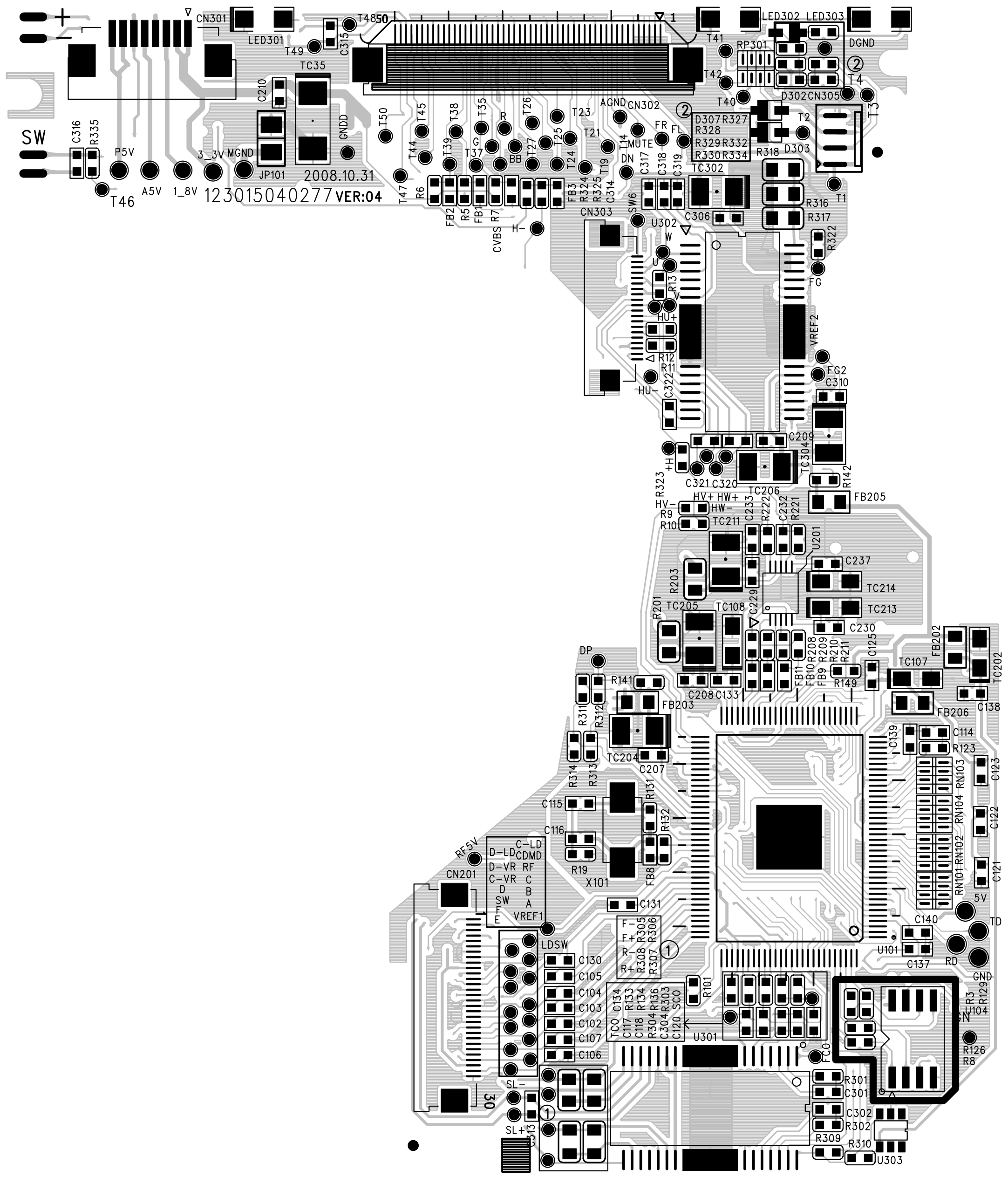
8-3

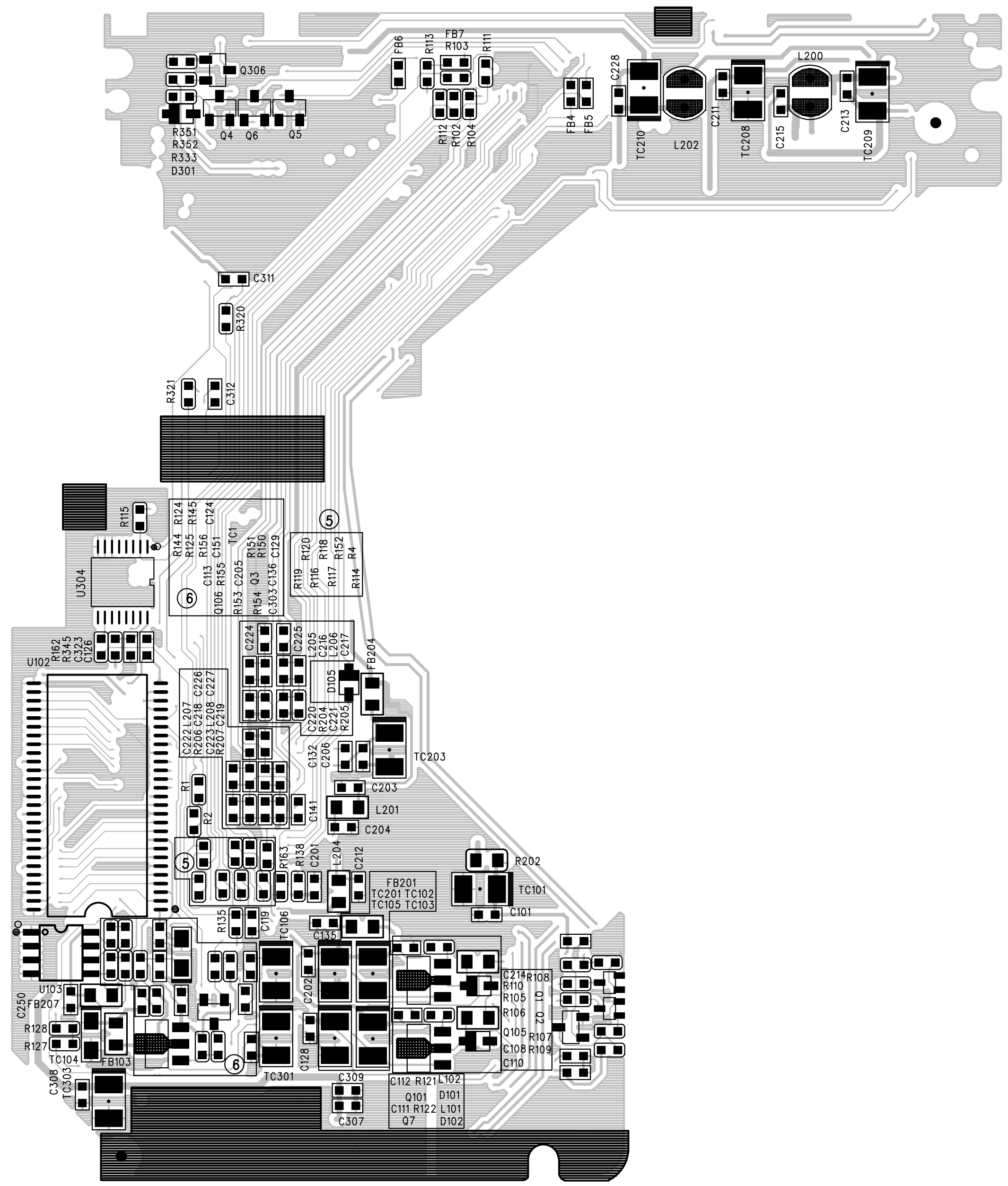
SERVO BOARD-Circuit Diagram-3



8-4

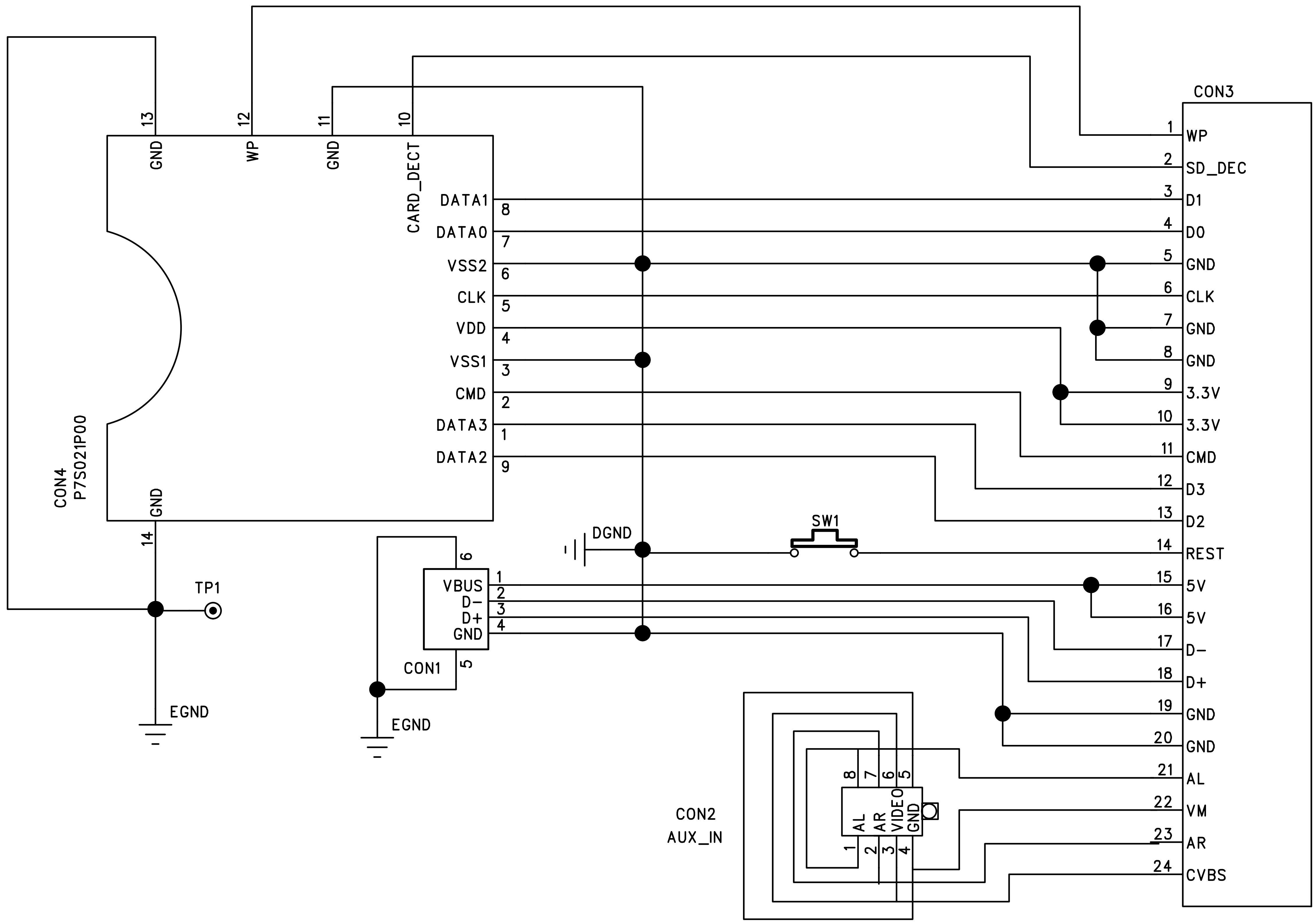
SERVO BOARD-Layout Diagram





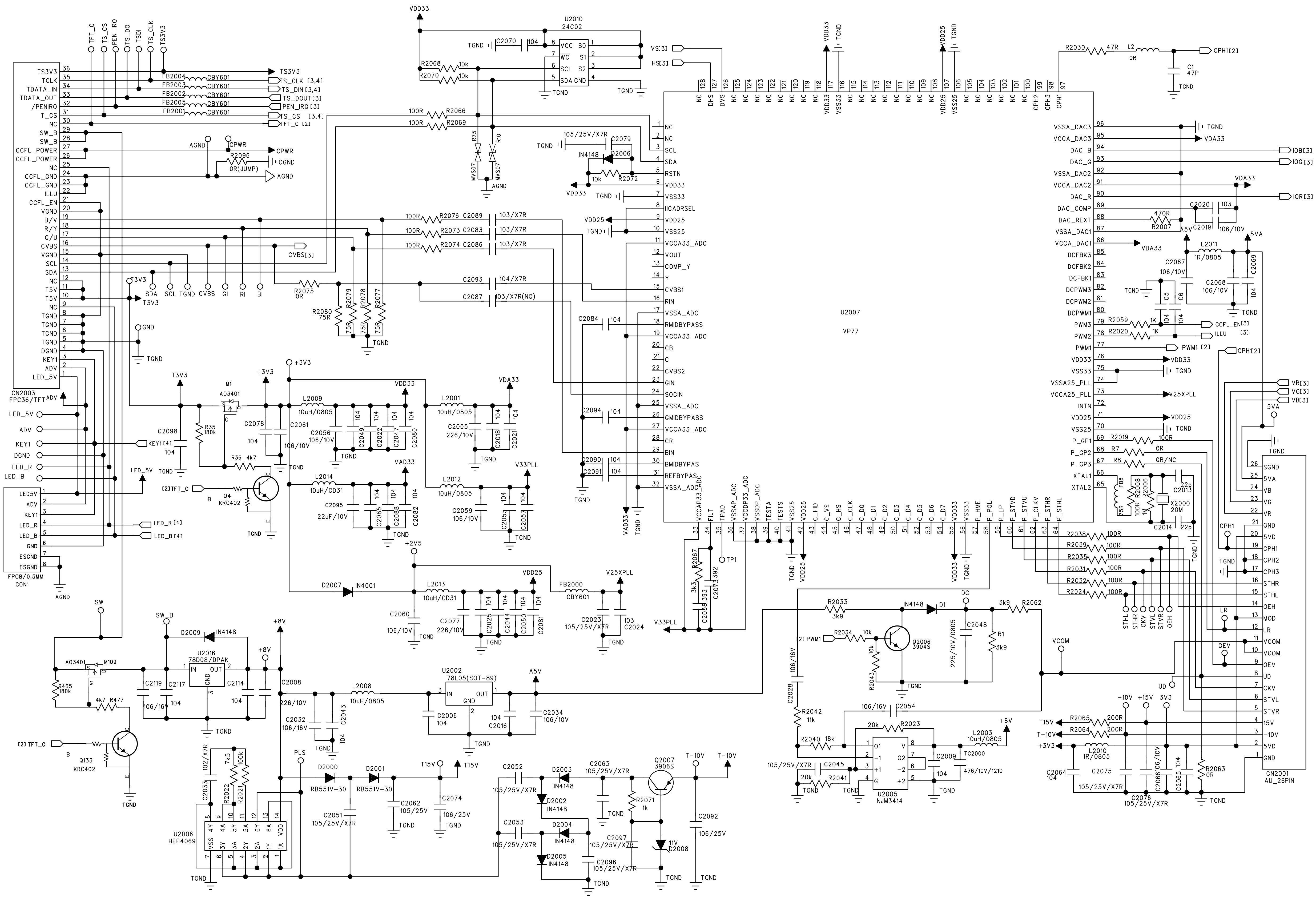
9-1

USB/SD BOARD-Circuit Diagram



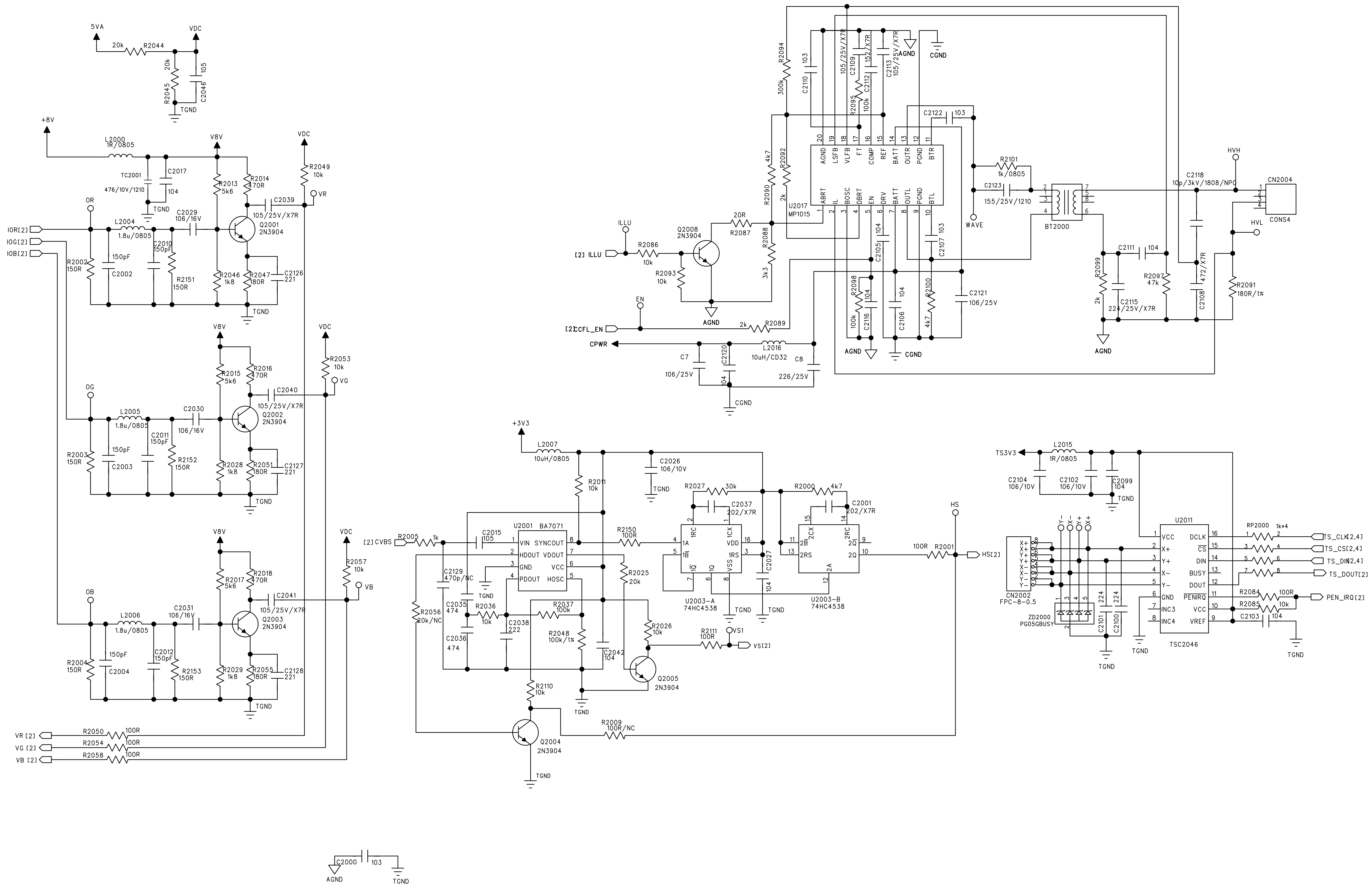
10-1

TFT BOARD-Circuit Diagram-1



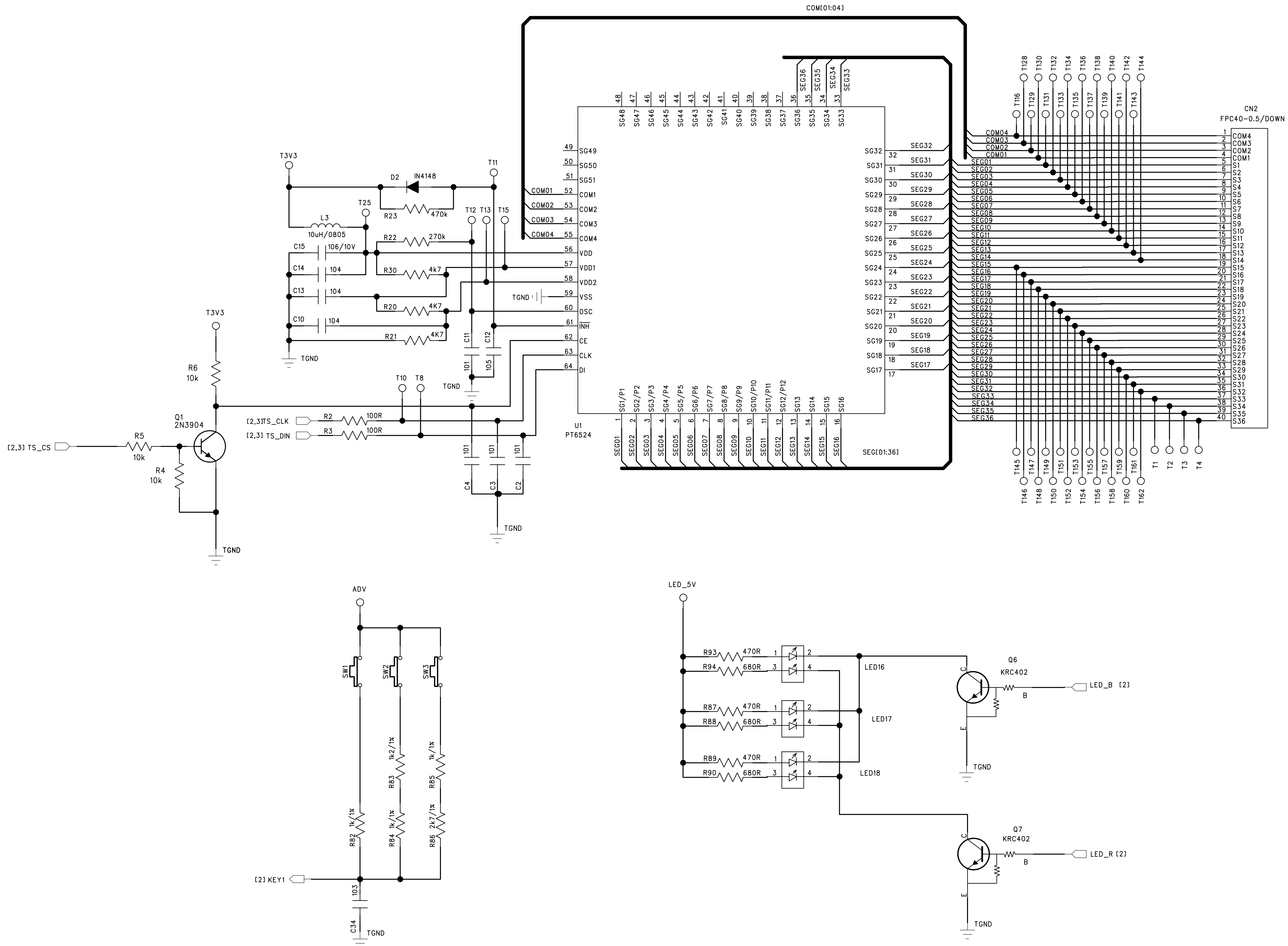
10-2

TFT BOARD-Circuit Diagram-2



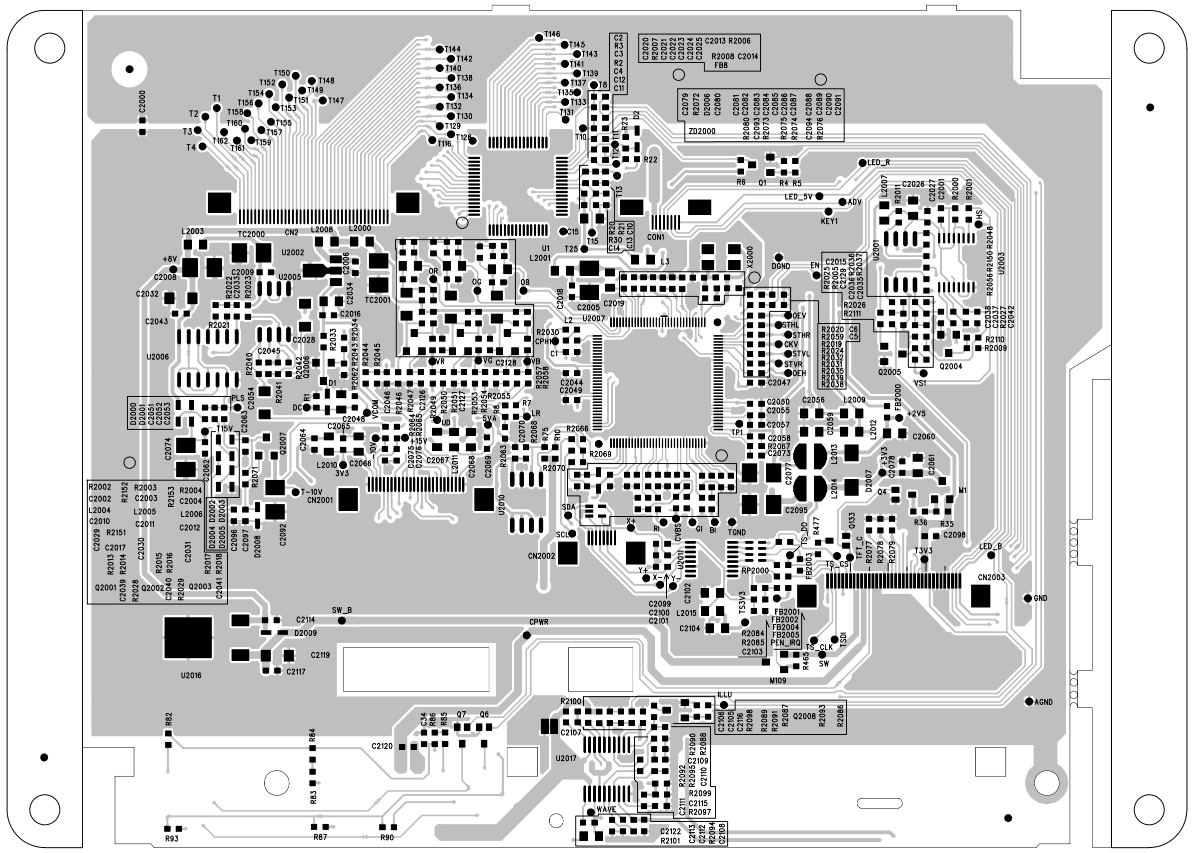
10-3

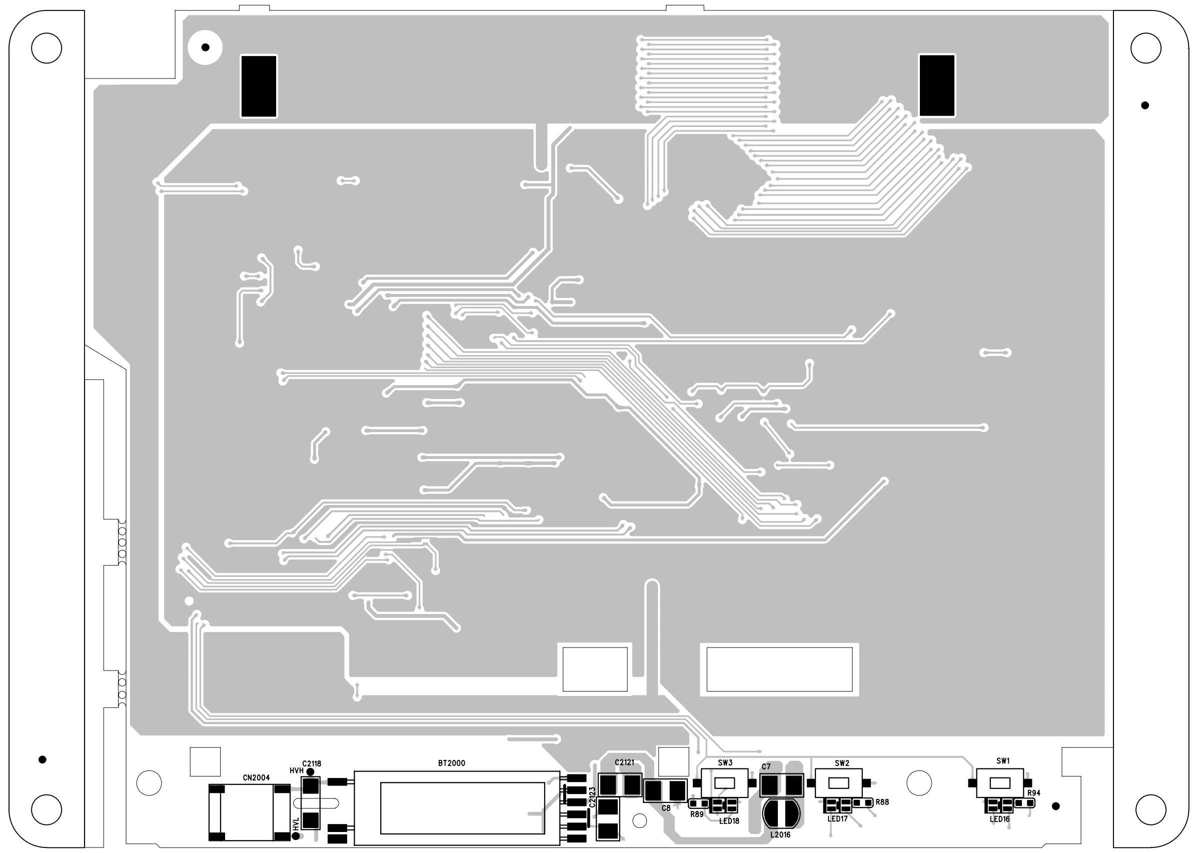
TFT BOARD-Circuit Diagram-3



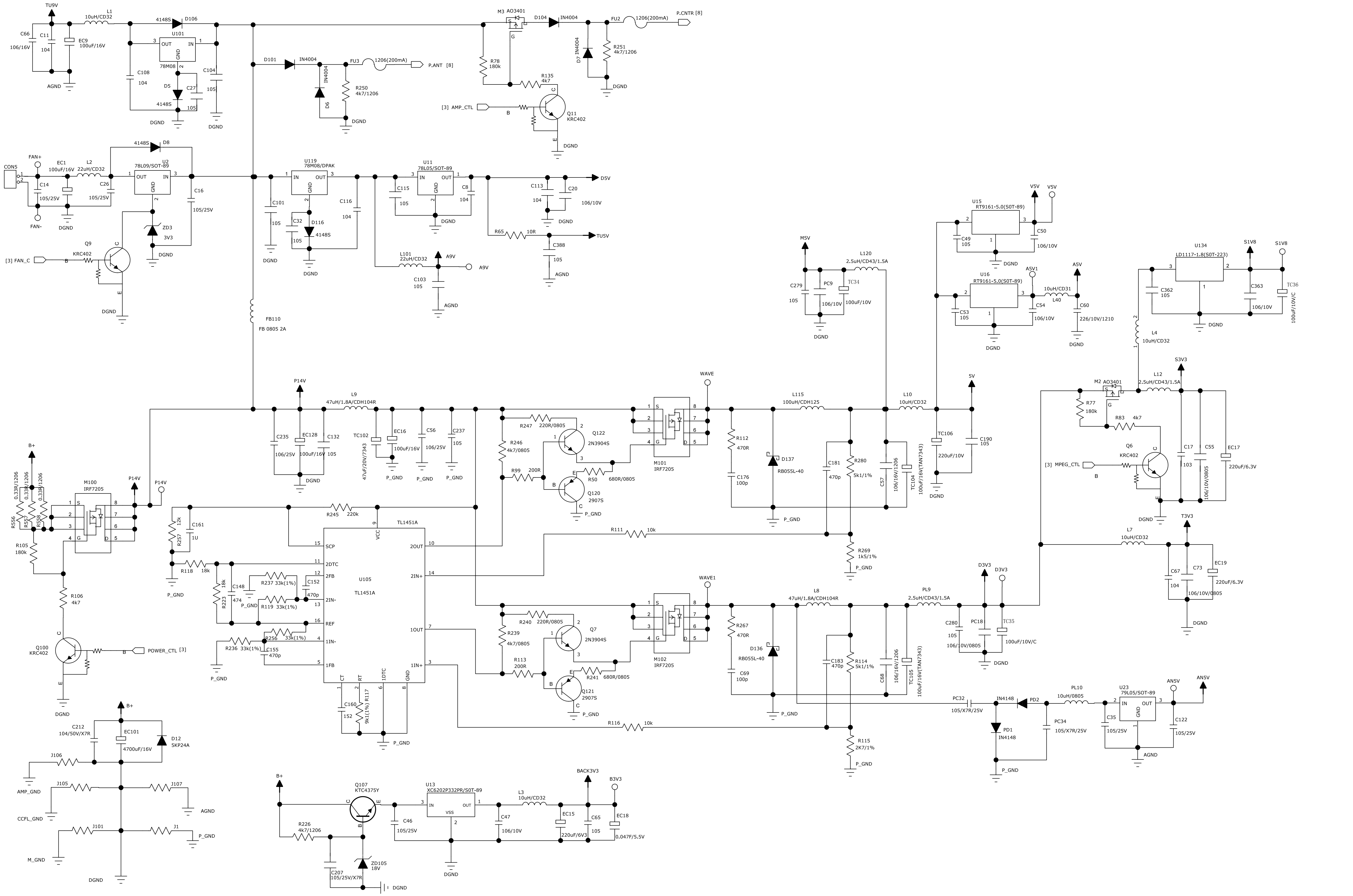
10-4

TFT BOARD-Layout Diagram



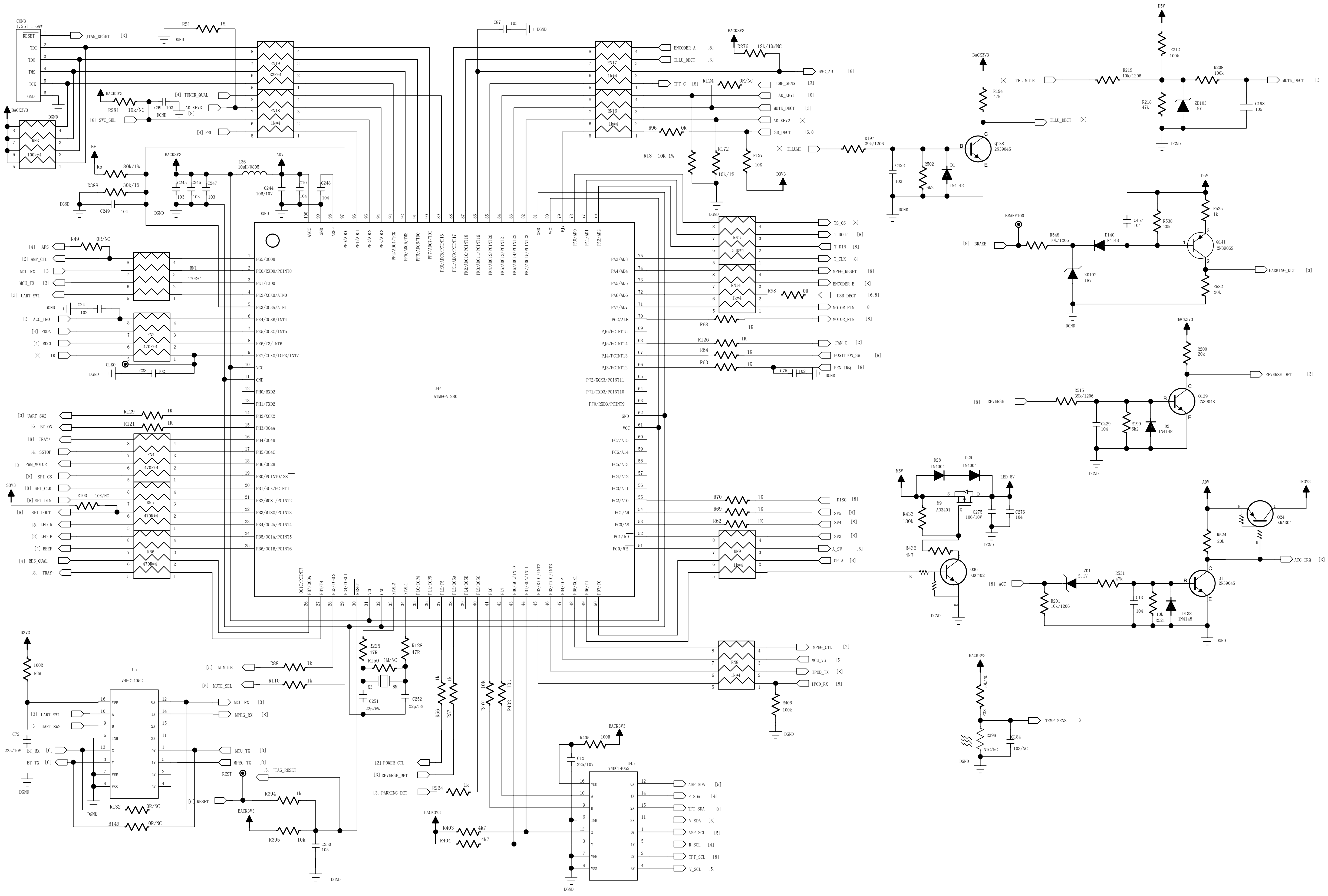


MAIN BOARD-Circuit Diagram-1



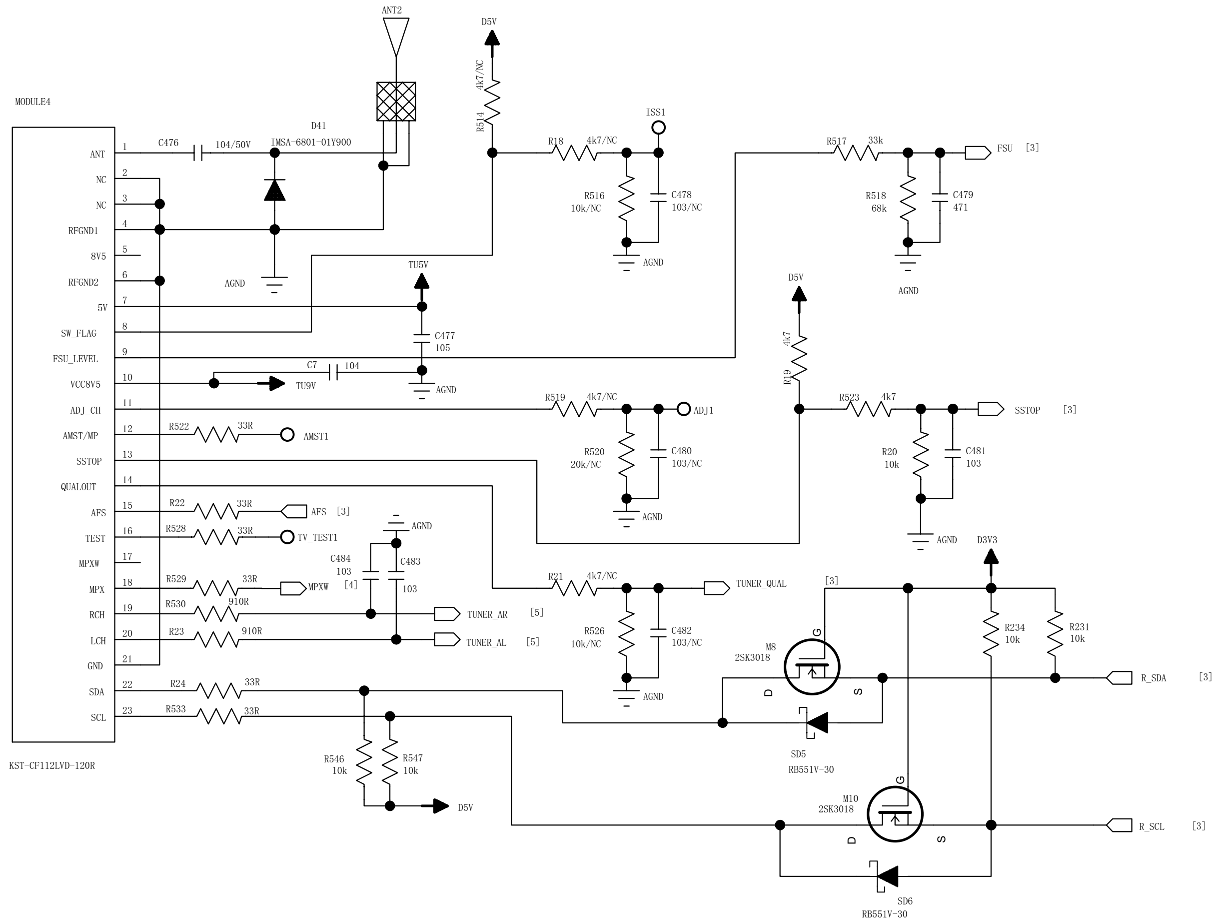
11-2

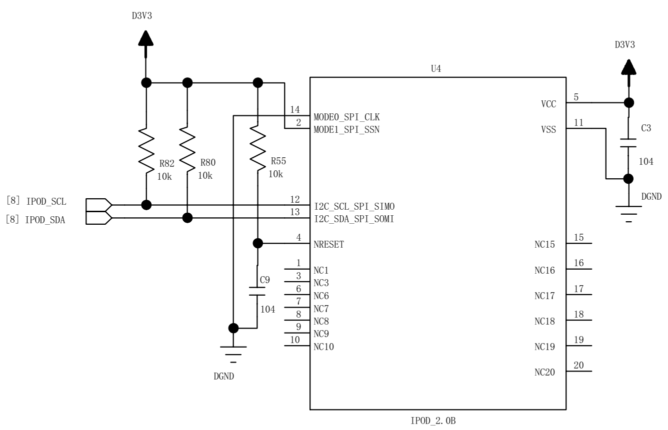
MAIN BOARD-Circuit Diagram-2

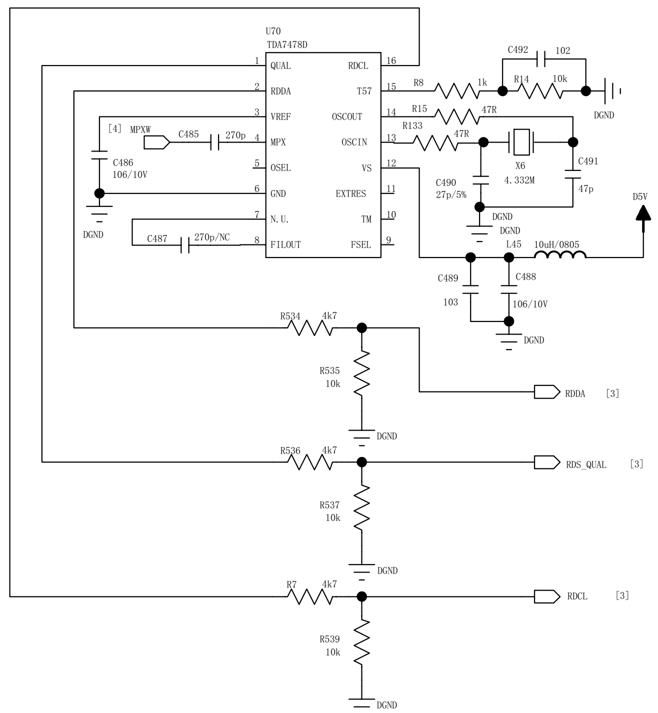


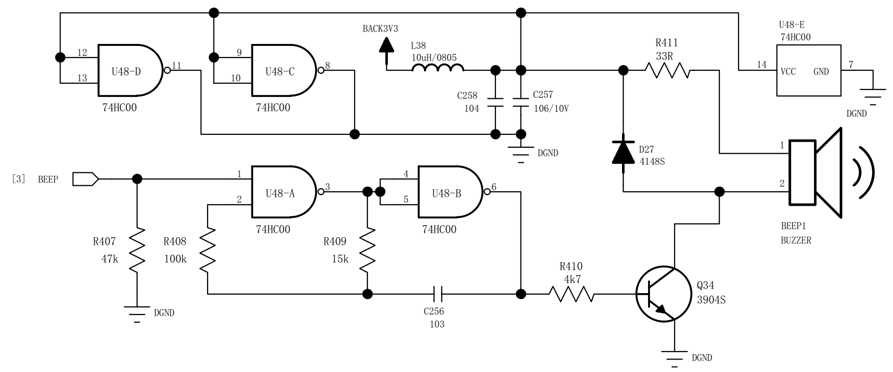
11-3

MAIN BOARD-Circuit Diagram-3

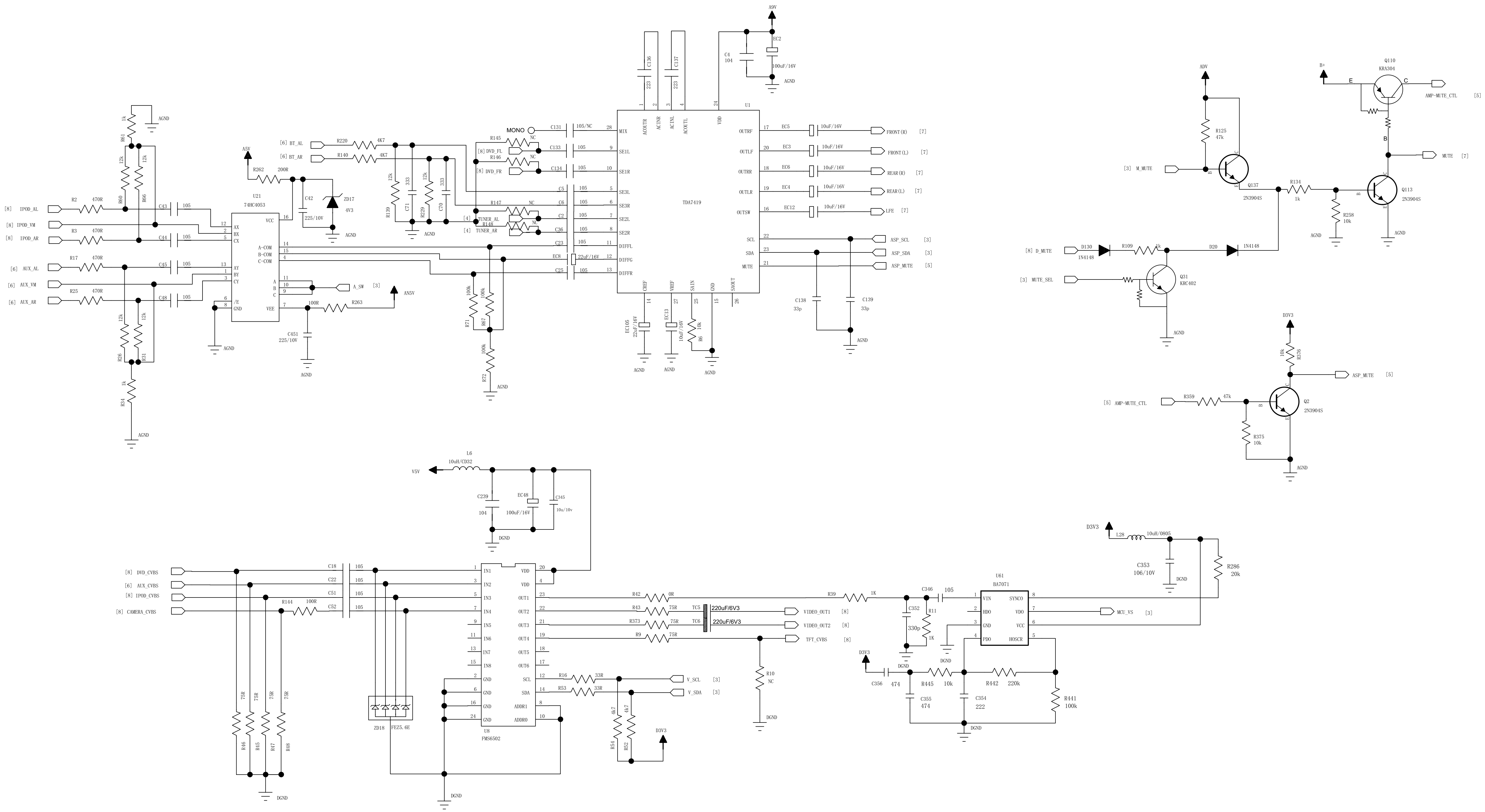






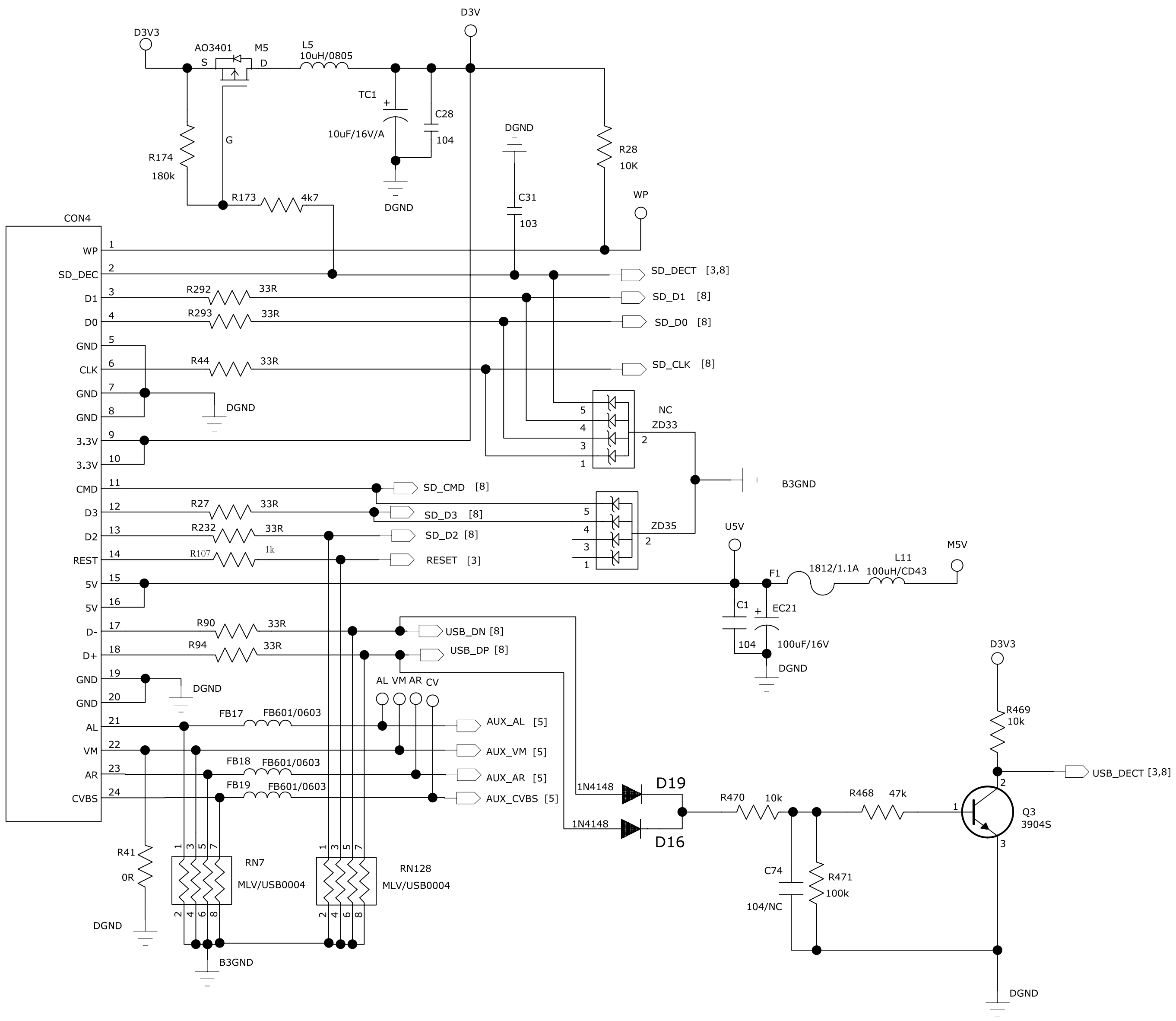


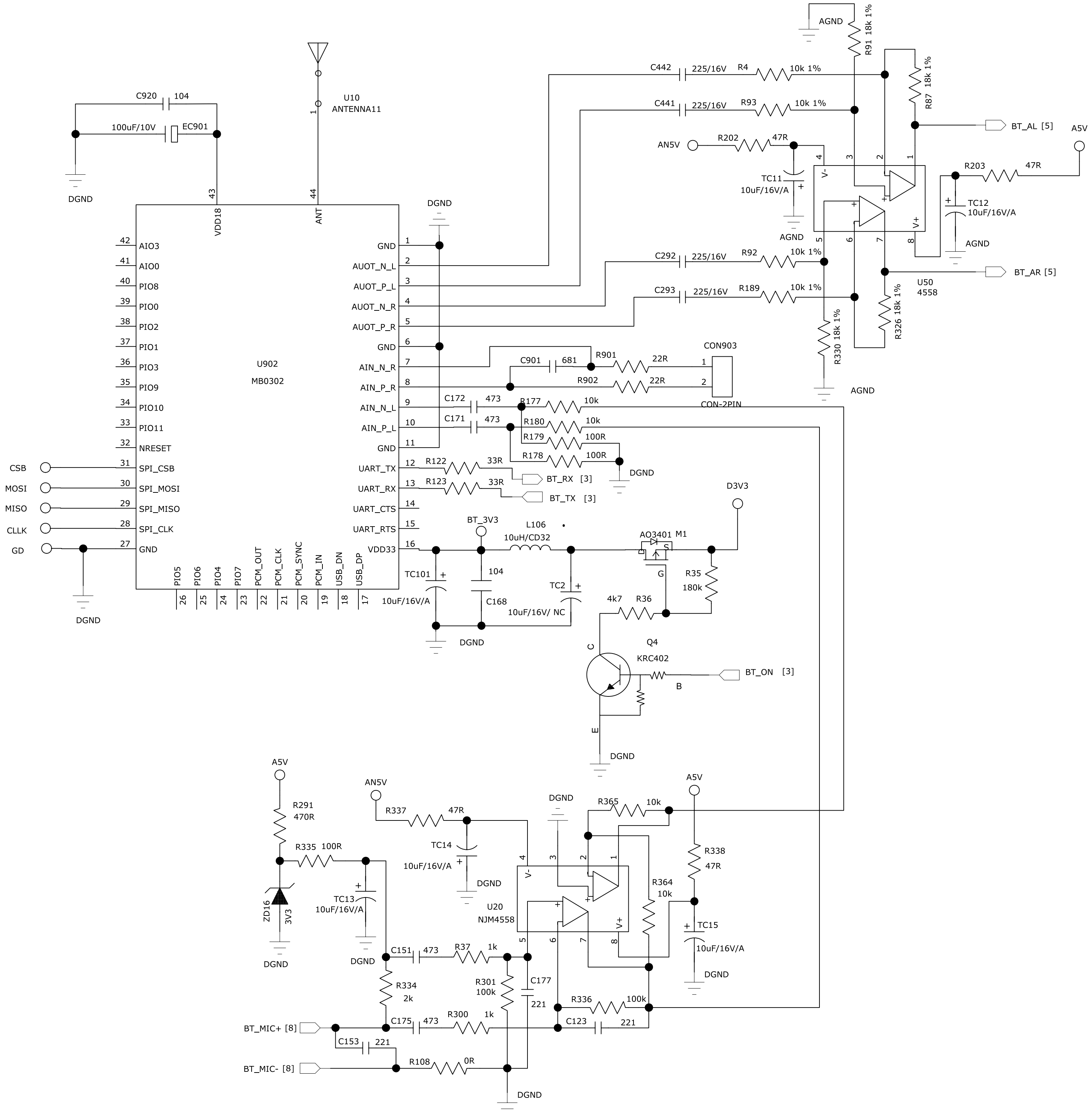
MAIN BOARD-Circuit Diagram-4



11-5

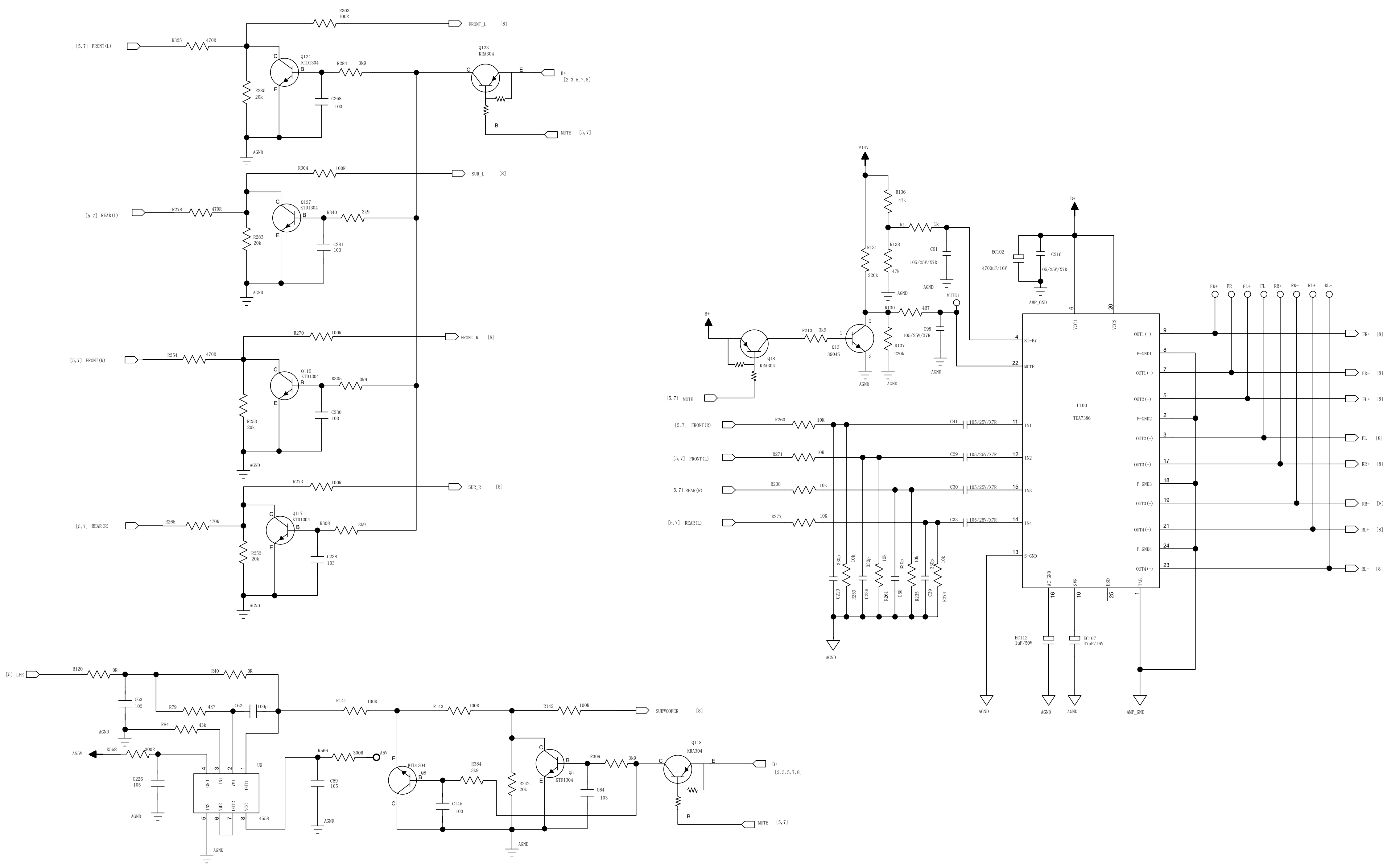
MAIN BOARD-Circuit Diagram-5





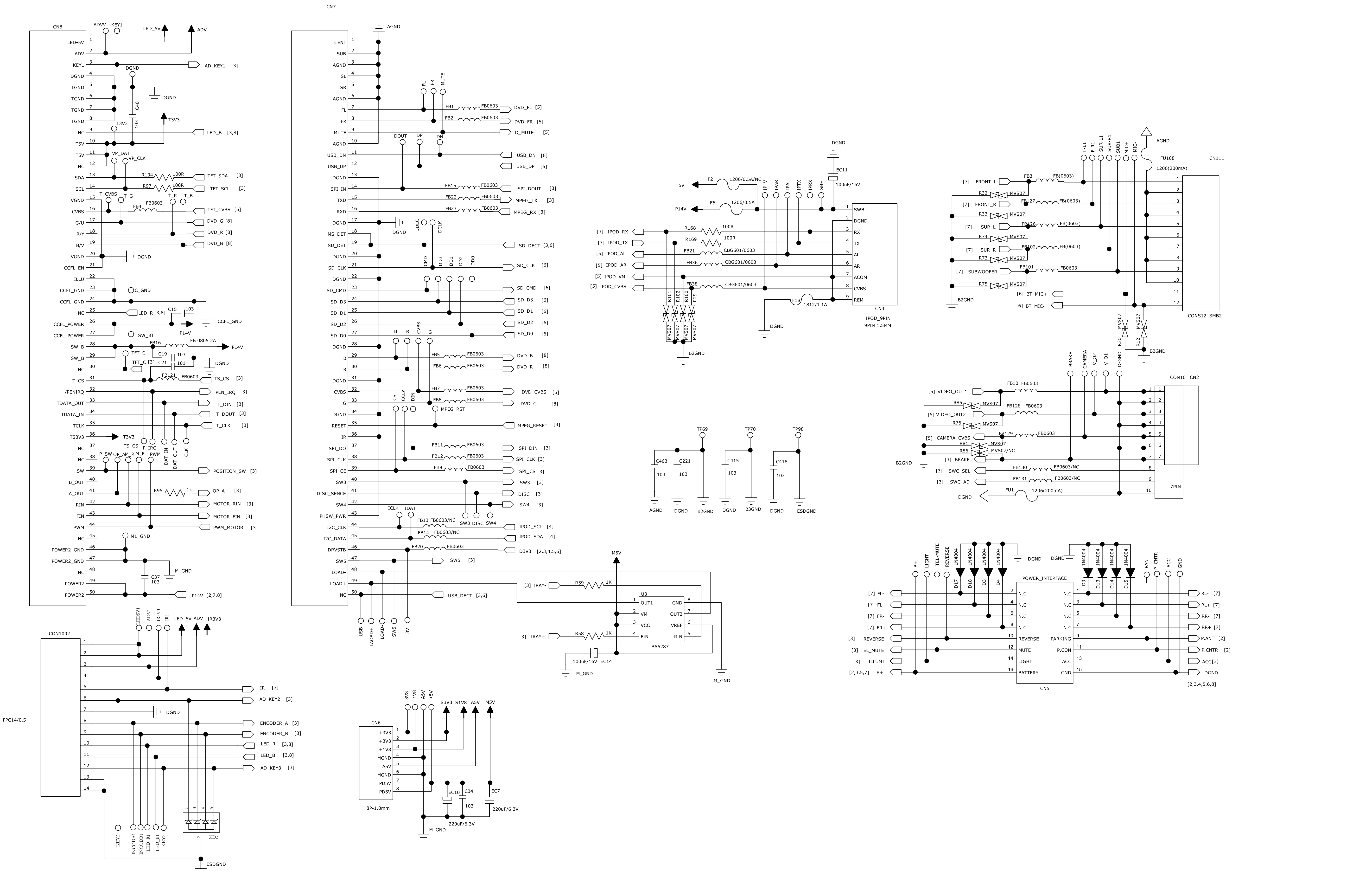
11-6

MAIN BOARD-Circuit Diagram-6



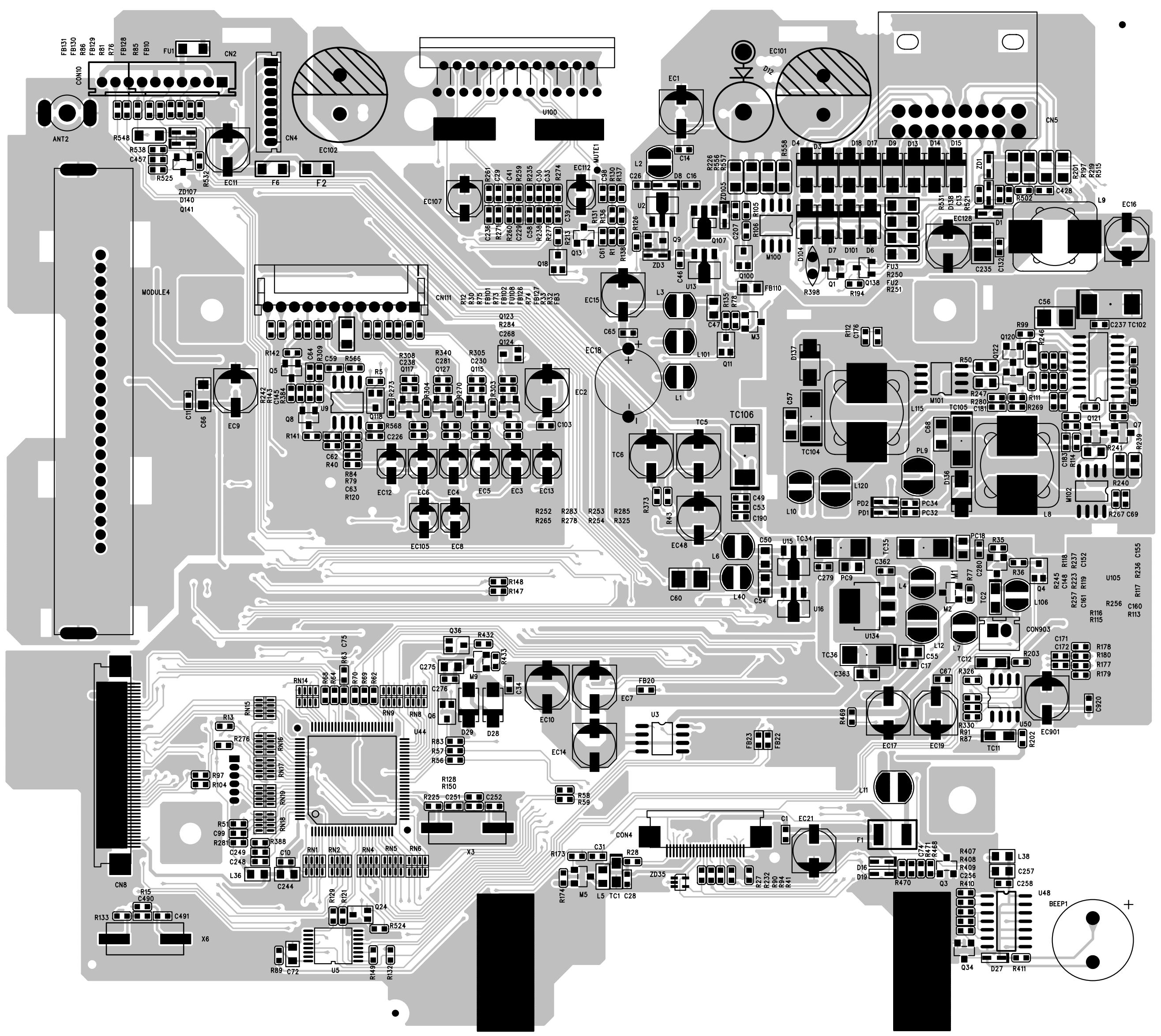
11-7

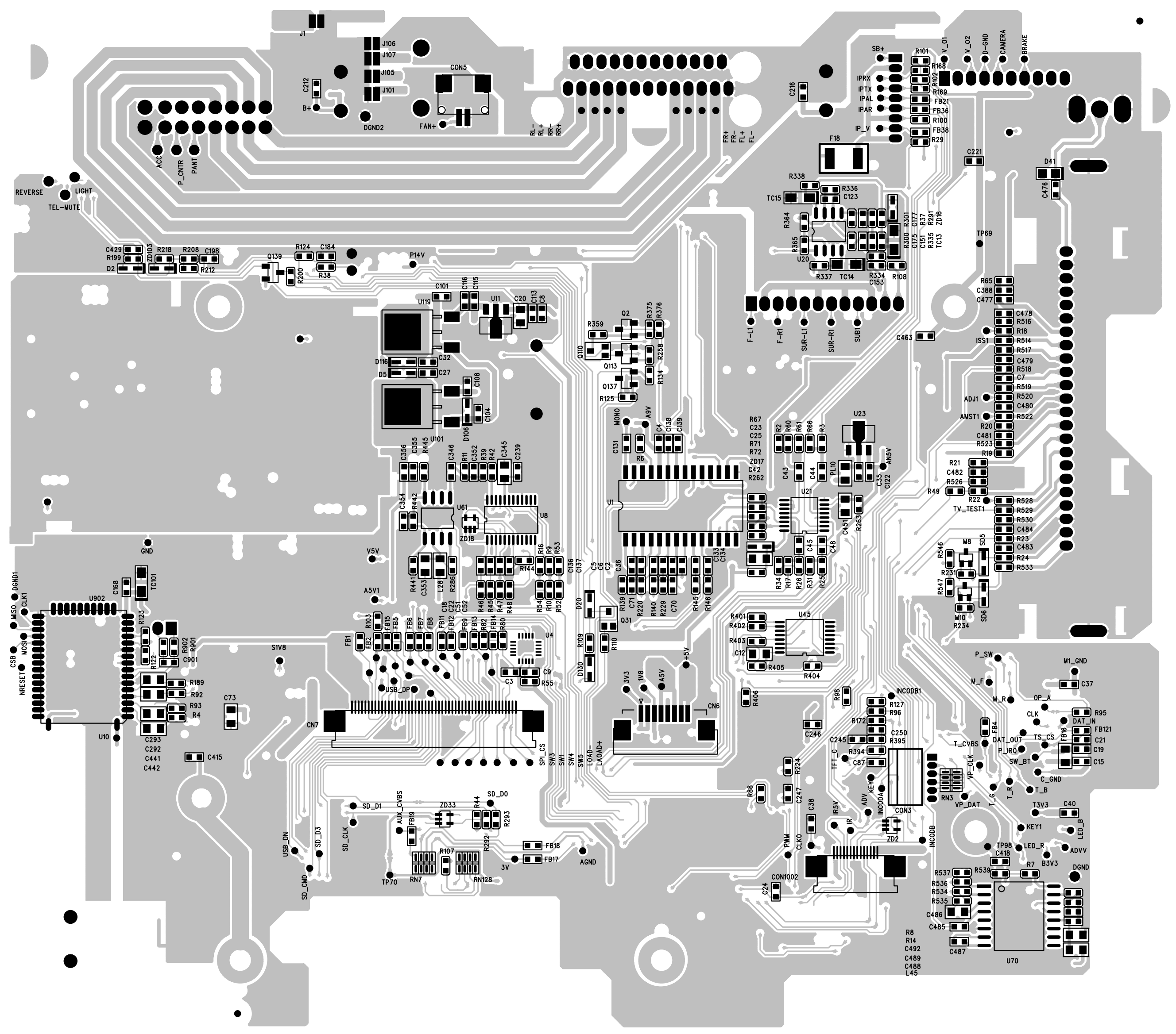
MAIN BOARD-Circuit Diagram-7



11-8

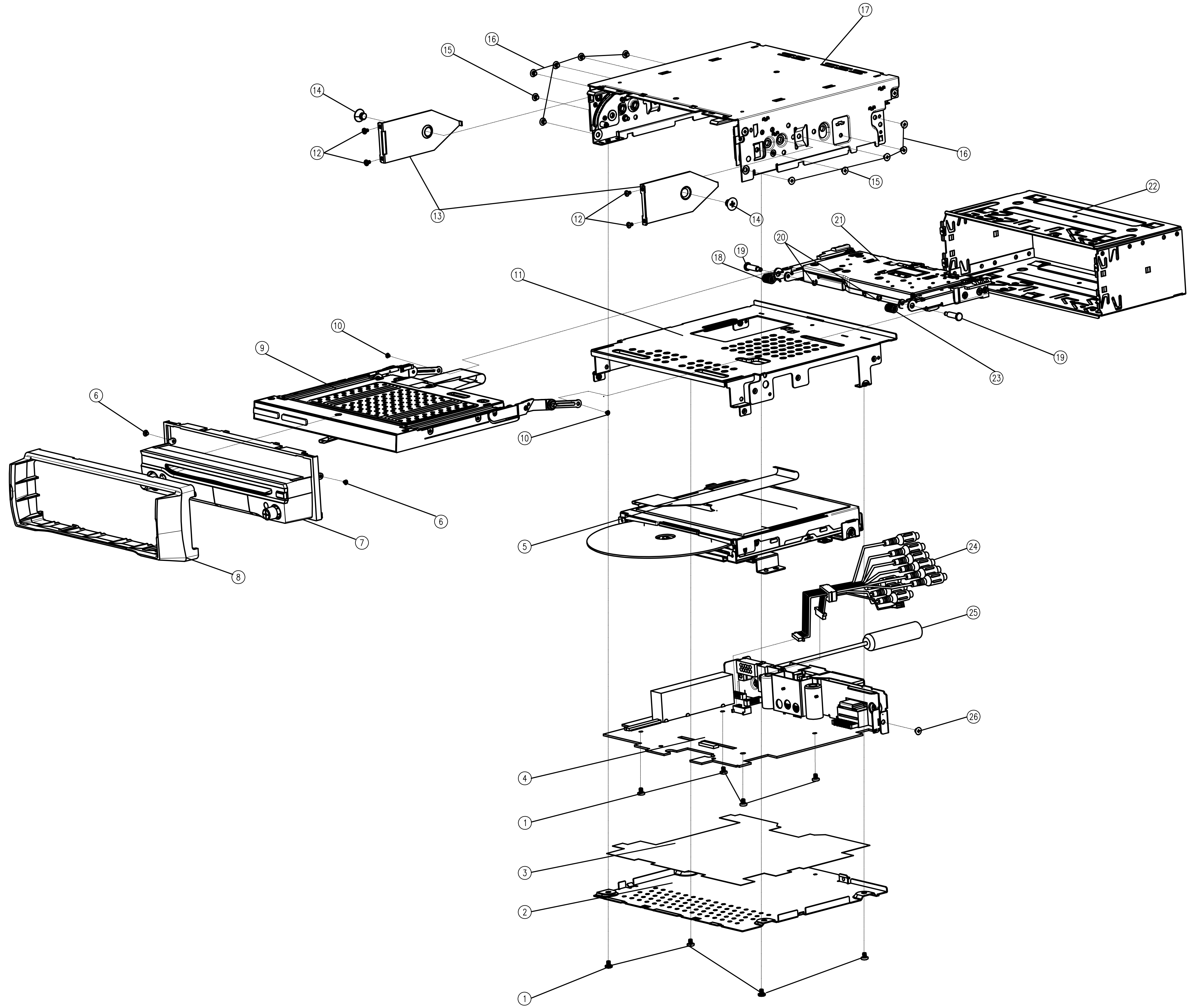
MAIN BOARD-Layout Diagram





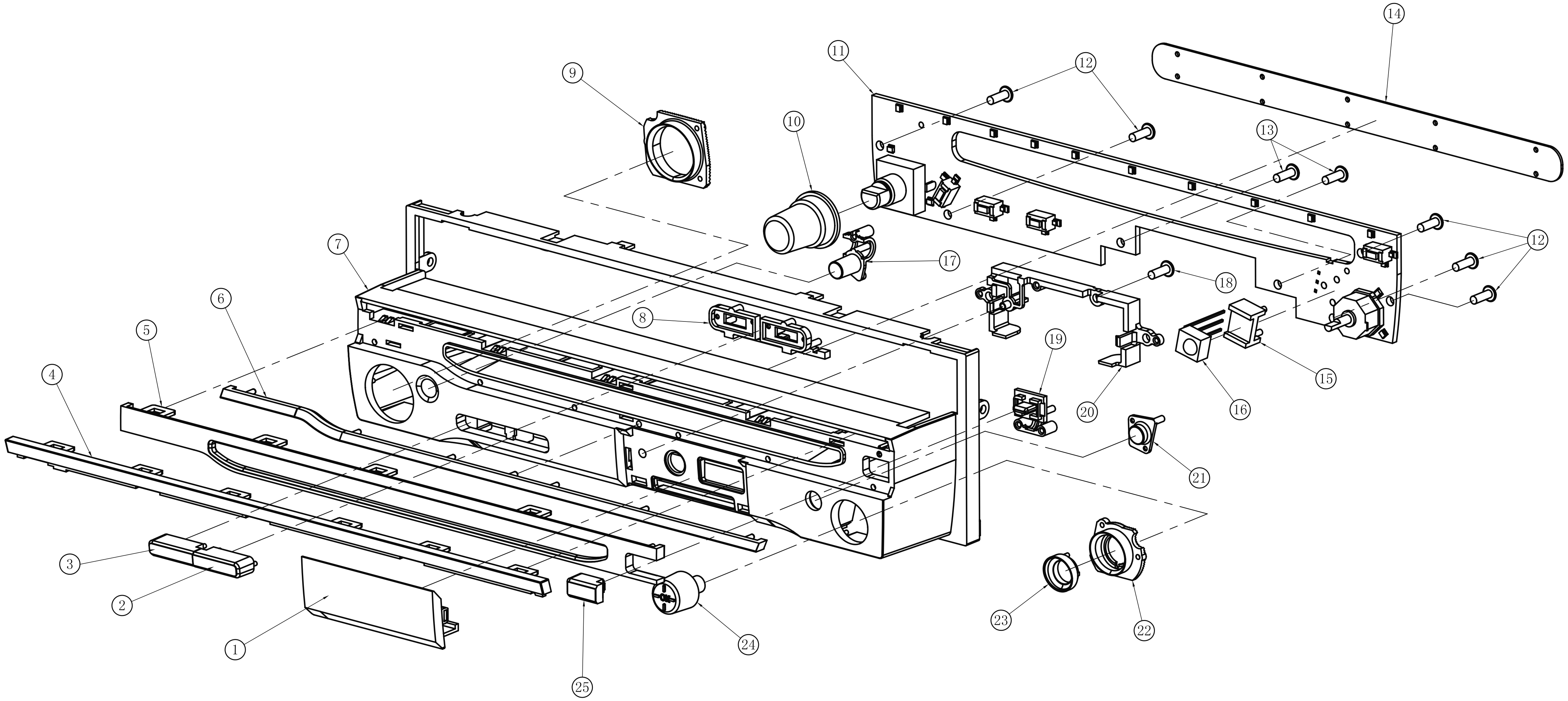
12-1

EXPLODE VIEW



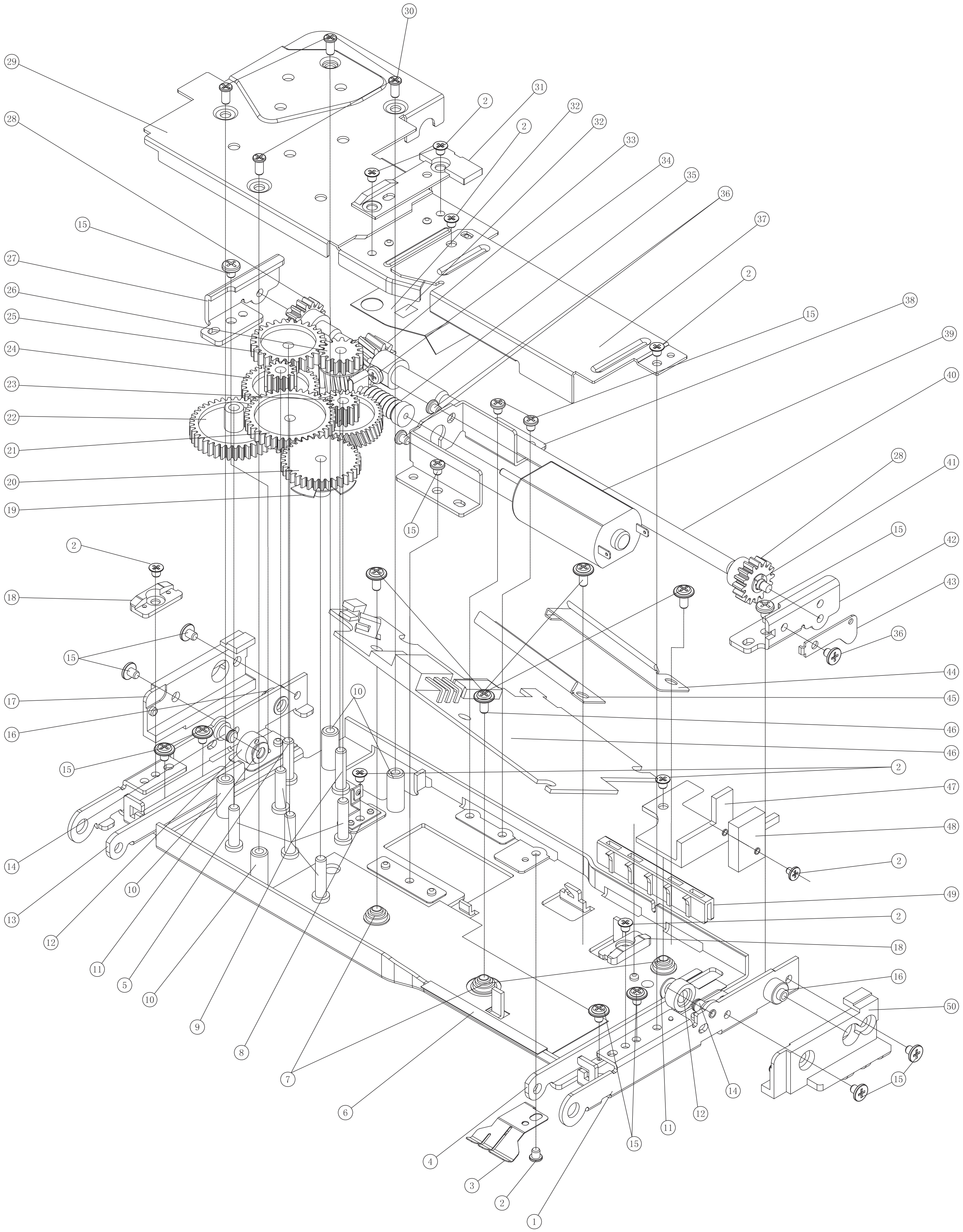
12 - 2

SET MECHANICAL EXPLODED VIEW --- BREAKDOWN
PART1 _ FRONT PANEL ASSEMBLY



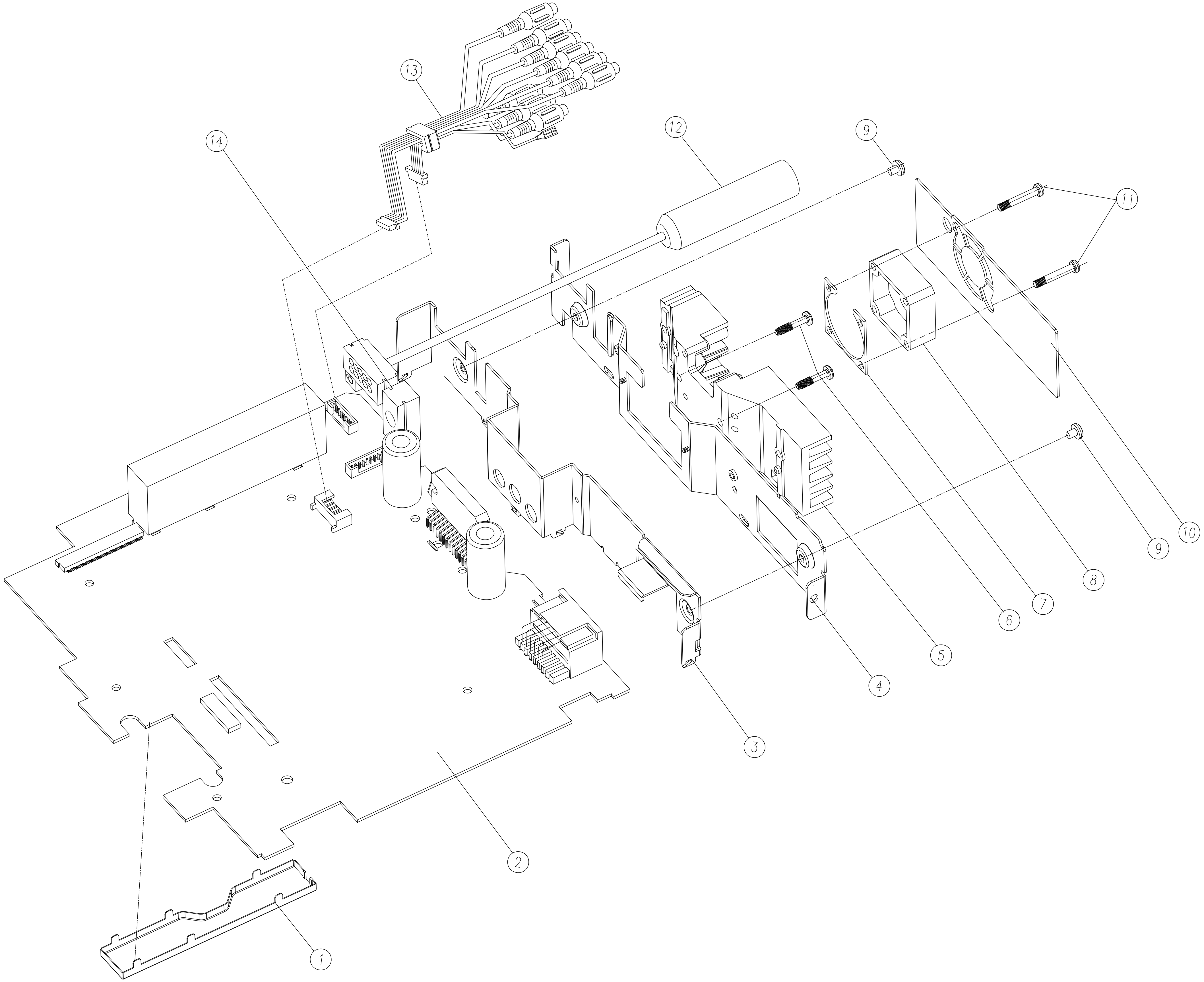
12 - 3

SET MECHANICAL EXPLODED VIEW --- BREAKDOWN
PART 2 _ SLIDE BRACKET ASSEMBLY



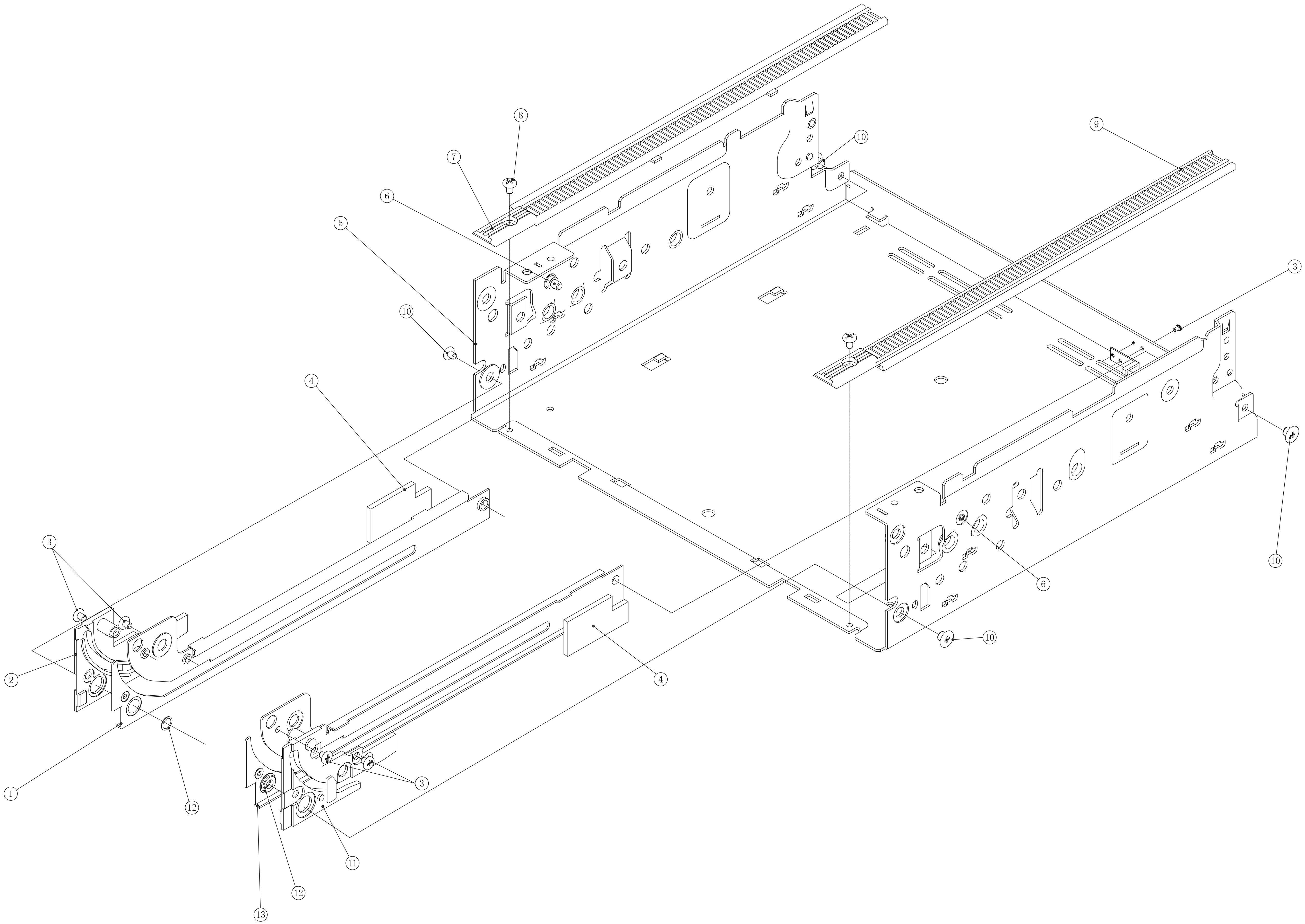
12 - 4

SET MECHANICAL EXPLODED VIEW --- BREAKDOWN
PART 3 _ MAIN BOARD ASSEMBLY



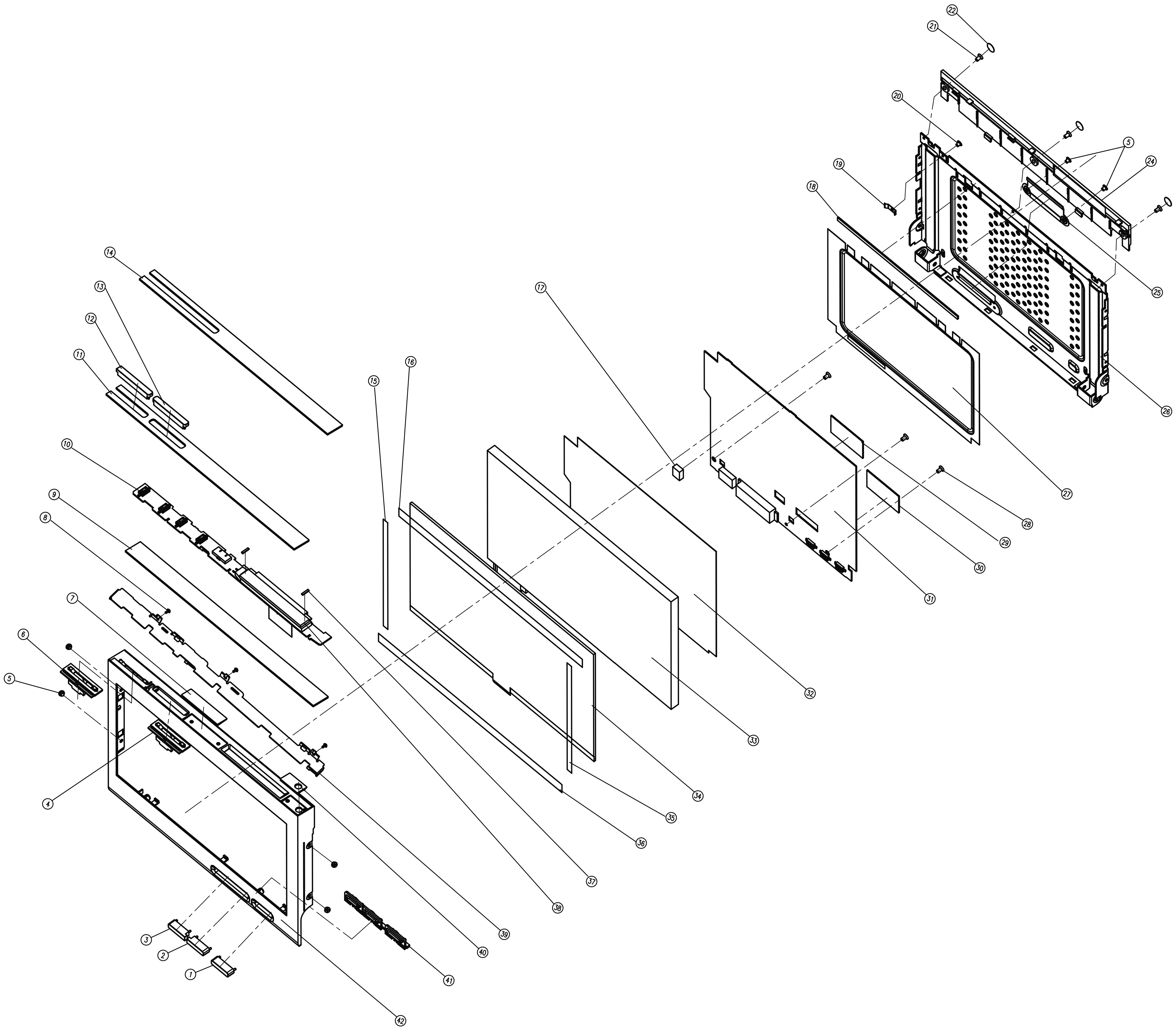
12 - 5

SET MECHANICAL EXPLODED VIEW --- BREAKDOWN
PART 4 _ BOTTOM COVER ASSEMBLY



12 - 6

SET MECHANICAL EXPLODED VIEW --- BREAKDOWN
PART 5 _ TFT SCREEN ASSEMBLY



(ONLY FOR /55)
MECHANICAL & ACCESSORIES PARTS LIST - OVERALL VIEW

4	996510020441	MAIN BOARD
5	996510020532	SERVO BOARD & DVD DRIVE
7	(CLR)	FRONT PANEL ASS'Y
8	996510020529	RIM
9	(CLR)	TFT SCREEN ASS'Y
21	(CLR)	SLIDE BRACKET ASS'Y
24	996510020435	AUDIO WIRE 19P
FFC1	996510020395	FFC 8P 1.0mm
FFC2	996510020396	FFC 24P 0.5mm
FFC3	996510020434	FFC 14P
KB1	996510020508	KEY BOARD MI ASSM
LCD1	996510020530	LCD BOARD
MB1	996510020394	FFC 50P 0.5MM
MIC1	996510020244	EXTERNAL MICROPHONE 3M
RM0	996510020533	REMOTE CONTROL
SD1	996510020498	USB/SD/AUX BOARD
TFT0	996510020514	TFT DRIVE BOARD

REMARK: CLR=COMPONENTS LEVEL REPAIR

MECHANICAL PARTS LIST - FRONT PANEL ASS'Y

PAL2	996510020430	BT BUTTON 2
PAL3	996510020429	BT BUTTON 1
PAL5	996510020427	DECO BRZ+TI
PAL6	996510020428	DECO-PLT+TI
PAL7	996510020418	FRONT PANEL
PAL8	996510020432	BT BUT BKT
PAL9	996510020421	VOL LI-GUIDE
PAL10	996510020419	VOL KNOB
PAL15	996510020431	REM BKT
PAL17	996510020417	SRC BUTTON
PAL19	996510020425	EJECT BUTTON BKT
PAL20	996510020423	USB BKT
PAL21	996510020426	REMOTE LENS
PAL23	996510020433	GUIDE BKT
PAL24	996510020420	5D BUTTON
PAL25	996510020424	EJECT BUTTON
PAL44	996510020422	DIR LI-GUIDE

MECHANICAL PARTS LIST - SLIDE BRACKET ASS'Y

SLI20	996510020391	VM-700 GEAR 6
SLI21	996510020387	VM-700 GEAR 2
SLI22	996510020383	VM-700 GEAR 3
SLI23	996510020369	VM-700 GEAR 1
SLI24	996510020386	VM-700 GEAR 4 PA
SLI25	996510020390	VM-700 GEAR 5 PA
SLI26	996510020385	VM-700 BEVEL WHEEL-A PA
SLI28	996510020372	VM-700 GEAR 7
SLI33	996510020384	VM-700 BEVEL WHEEL-B PA

MECHANICAL PARTS LIST - MAIN BOARD ASS'Y

8	996510020443	FAN

MECHANICAL PARTS LIST - BOTTOM COVER ASS'Y (ONLY FOR /55)

BOT2	996510020392	VM-700 R-TRACK
BOT7	996510020388	VM-700 LEFT RACK
BOT9	996510020389	VM-700 RIGHT RACK
BOT11	996510020393	VM-700 L-TRACK

MECHANICAL PARTS LIST - TFT SCREEN ASS'Y

TFT1	996510020401	WIDE BUTTON
TFT2	996510020411	TFT DOWN BUTTON
TFT3	996510020402	TFT UP BUTTON
TFT4	996510020407	BAND BUT BKT
TFT6	996510020404	OPEN BUT BKT
TFT7	996510020416	LENS BKT2
TFT11	996510020406	TFT LENS BLK
TFT12	996510020399	OPEN BUTTON
TFT13	996510020400	DISP BUTTON
TFT24	996510020398	RE TFT PANEL
TFT26	996510020415	SCN BOT COVER S C T0.8
TFT33	996510020413	TFT/A A070FW03-V4 7"
TFT34	996510020414	TOUCH SCREEN 7"
TFT38	996510020412	LCD FSTN F
TFT39	996510020409	SKB BKT SECC T0.6
TFT40	996510020408	LENS BKT
TFT41	996510020405	WIDE BUT BKT
TFT42	996510020397	FE TFT PANEL

ELECTRICAL PARTS LIST - KEY BOARD

CON3	996510020482	FFC SOCKET 14P
D1	996510020513	LED RED
D7	996510019822	LED GREEN 19-217/GHC-YRSM/3T
LED1	996510019610	LED B/R
LED10	996510019610	LED B/R
LED12	996510019610	LED B/R
LED13	996510019610	LED B/R
LED14	996510019610	LED B/R
LED15	996510019610	LED B/R
LED16	996510019610	LED B/R
LED17	996510019610	LED B/R
LED18	996510019610	LED B/R
LED19	996510019610	LED B/R
LED2	996510019610	LED B/R
LED20	996510019610	LED B/R
LED3	996510019610	LED B/R
LED4	996510019610	LED B/R
LED5	996510019610	LED B/R
LED6	996510019610	LED B/R
LED7	996510019610	LED B/R
LED8	996510019610	LED B/R
Q1	996510020462	TR KRC402 USM
Q2	996510020462	TR KRC402 USM
Q4	996510020462	TR KRC402 USM
Q5	996510020462	TR KRC402 USM
SW1	996510020512	TACT SW
SW10	996510020509	ENCODER
SW2	996510020512	TACT SW
SW3	996510020512	TACT SW
SW4	996510020512	TACT SW
SW7	996510020511	ROCKER SW
U5	996510020510	INFRARED RECEIVER
ZD1	996510019580	ESD DIODE PG05GBUSV 200W

ELECTRICAL PARTS LIST - LCD BOARD

BL1	996510020531	BACK LIGHT BH-H102SW
CON2	996510020488	FFC SOCKET 8P
K1	996510020518	TACT SW
K2	996510020518	TACT SW
K3	996510020518	TACT SW
K4	996510020518	TACT SW
LED1	996510019610	LED B/R
LED2	996510019610	LED B/R
LED3	996510019610	LED B/R
Q2	996510020462	TR KRC402 USM
Q3	996510020462	TR KRC402 USM

ELECTRICAL PARTS LIST - MAIN BOARD

ANT2	996510020450	I/O DV7810 2P FM-ANT
BEEP1	996510020444	BUZZER HC12-105B
CN111	996510020451	SOCKET 12P 2.0mm DIP90
CN2	996510020448	SOCKET 7P 2.0mm DIP180
CN5	996510020486	SOCKET 16P
CN6	996510020484	FFC SOCKET 8P
CN7	996510020485	FFC SOCKET 50P
CN8	996510020485	FFC SOCKET 50P
CON1002	996510020482	FFC SOCKET 14P
CON4	996510020489	FFC SOCKET 24P
CON5	996510020483	SOCKET 2P
D1	996510020452	REC DIODE
D101	996510020456	REC DIODE
D104	996510020456	REC DIODE
D106	996510020452	REC DIODE
D116	996510020452	REC DIODE
D12	996510020447	TVS DIODE
D13	996510020452	REC DIODE
D130	996510020452	REC DIODE
D136	996510020495	SCHOTTKY
D137	996510020495	SCHOTTKY
D138	996510020452	REC DIODE
D14	996510020452	REC DIODE
D140	996510020452	REC DIODE
D15	996510020452	REC DIODE
D16	996510020452	REC DIODE
D17	996510020452	REC DIODE
D18	996510020452	REC DIODE
D19	996510020452	REC DIODE
D2	996510020452	REC DIODE

ELECTRICAL PARTS LIST - MAIN BOARD

D20	996510020452	REC DIODE
D27	996510020452	REC DIODE
D28	996510020452	REC DIODE
D29	996510020452	REC DIODE
D3	996510020452	REC DIODE
D4	996510020452	REC DIODE
D41	996510020459	ESD DIODE
D5	996510020452	REC DIODE
D6	996510020456	REC DIODE
D7	996510020456	REC DIODE
D8	996510020452	REC DIODE
D9	996510020452	REC DIODE
EC101	996510020446	E.CAP 4700uF
EC102	996510020446	E.CAP 4700uF
EC18	996510020449	CAP 0.047F 5.5V
F1 ⚠	996510020458	FUSE
FU1 ⚠	996510020457	FUSE
FU108 ⚠	996510020457	FUSE
FU2 ⚠	996510020457	FUSE
FU3 ⚠	996510020457	FUSE
L11	996510020465	INDUCTOR 100uH CD43
L12	996510020466	POWER INDUCTOR
L120	996510020466	POWER INDUCTOR
M10	996510019712	MOSFET 2SK3018 UMT3
M100	996510020460	MOSFET
M101	996510020460	MOSFET
M102	996510020460	MOSFET
M2	996510019572	MOSFET AO3401
M3	996510019572	MOSFET AO3401
M5	996510019572	MOSFET AO3401
M8	996510019712	MOSFET 2SK3018 UMT3
M9	996510019572	MOSFET AO3401
MODULE	996510020445	TUNER
PD1	996510020452	REC DIODE
PD2	996510020452	REC DIODE
PL9	996510020466	POWER INDUCTOR
Q1	996510019571	TRANSISTOR 2N3904(NPN)
Q100	996510020462	TR KRC402 USM
Q107	996510020464	TR KTC4375Y SOT-89 KEC
Q11	996510020462	TR KRC402 USM
Q110	996510020461	TR KRA304 USM
Q113	996510019571	TRANSISTOR 2N3904(NPN)
Q115	996510020463	TR KTD1304 SOT-23 KEC
Q117	996510020463	TR KTD1304 SOT-23 KEC
Q118	996510020461	TR KRA304 USM

ELECTRICAL PARTS LIST - MAIN BOARD

Q120	996510020493	TR KN12907A(PNP) SOT-23
Q121	996510020493	TR KN12907A(PNP) SOT-23
Q122	996510019571	TRANSISTOR 2N3904(NPN)
Q123	996510020461	TR KRA304 USM
Q124	996510020463	TR KTD1304 SOT-23 KEC
Q127	996510020463	TR KTD1304 SOT-23 KEC
Q13	996510019571	TRANSISTOR 2N3904(NPN)
Q137	996510019571	TRANSISTOR 2N3904(NPN)
Q138	996510019571	TRANSISTOR 2N3904(NPN)
Q139	996510019571	TRANSISTOR 2N3904(NPN)
Q141	996510019570	TRANSISTOR MMBT3906LT1(PNP)
Q18	996510020461	TR KRA304 USM
Q2	996510019571	TRANSISTOR 2N3904(NPN)
Q24	996510020461	TR KRA304 USM
Q3	996510019571	TRANSISTOR 2N3904(NPN)
Q31	996510020462	TR KRC402 USM
Q34	996510019571	TRANSISTOR 2N3904(NPN)
Q36	996510020462	TR KRC402 USM
Q5	996510020463	TR KTD1304 SOT-23 KEC
Q6	996510020462	TR KRC402 USM
Q7	996510019571	TRANSISTOR 2N3904(NPN)
Q8	996510020463	TR KTD1304 SOT-23 KEC
Q9	996510020462	TR KRC402 USM
RN128	996510020481	V-RES AVX
RN7	996510020481	V-RES AVX
SD5	996510019698	SCHTTKY DIODE RB551 0.5A 20V
SD6	996510019698	SCHTTKY DIODE RB551 0.5A 20V
TC102	996510020497	TAN.CAP 47uF
TC106	996510020496	TAN.CAP 220uF
U1	996510019656	IC TDA7419TR SO28 ST
U100	996510019650	IC E-TDA7386 FLEXIWATT25 ST
U101	996510019672	IC KIA78M08 DPAK KEC
U105	996510020490	IC TL1451ACD SOIC16
U11	996510020475	IC 78L05L SOT-89 UTC
U119	996510019672	IC KIA78M08 DPAK KEC
U13	996510020469	IC XC6202P332PR
U134	996510020467	IC LD1117A-1.8V
U15	996510020468	IC RT9161A-50X
U16	996510020468	IC RT9161A-50X
U2	996510020476	IC 78L09 SOT-89 KEC
U20	996510019713	IC UTC4558 SOP-8
U21	996510020474	IC 74HC4053PW TSSOP-1
U23	996510020477	IC 79L05 SOT-89 UTC
U3	996510020480	IC BA6287F SOP-8 ROMH
U44	996510031158	IC ATMEGA1280-16AU/CED750

ELECTRICAL PARTS LIST - MAIN BOARD

U45	996510020472	IC 74HCT4052DB SSOP16
U48	996510020473	IC 74HC00 SOP14
U50	996510019713	IC UTC4558 SOP-8
U61	996510020479	IC BA7071 SOP8 ROHM
U8	996510019659	IC FMS6502 TSSOP24
U902	996510031373	MODULE BLUETOOTH/CED750
WIR4	996510020442	WIRE HARNES 2P
X3	996510020470	TCXO 8.00M
ZD1	996510020454	ZENER DIODE 5.6V
ZD105	996510020453	ZENER DIODE 18V
ZD107	996510020453	ZENER DIODE 18V
ZD16	996510020455	ZENER DIODE 3.3V
ZD17	996510020471	ZENER DIODE
ZD18	996510019580	ESD DIODE PG05GBUSV 200W
ZD2	996510019580	ESD DIODE PG05GBUSV 200W
ZD3	996510020455	ZENER DIODE 3.3V
ZD35	996510019580	ESD DIODE PG05GBUSV 200W

ELECTRICAL PARTS LIST - USB/SD/AUX BOARD

CON1	996510020499	SOCKET 4P 2.0mm USB2.0
CON3	996510020502	FFC SOCKET 24P
CON4	996510019625	12P 2.5MM SD/MMC SOCKET
U1	996510020500	SOCKET EARPHONE

ELECTRICAL PARTS LIST - MOTOR BOARD

CN4001	996510020506	FFC SOCKET 12P
D4000	996510020503	SW DIODE
D4001	996510020503	SW DIODE
D4002	996510020503	SW DIODE
L4001	996510019653	INDUCTOR 10uH 0805
U4000	996510020507	IC L7809CV TO-220 ST
U4001	996510020505	OPTICAL ELECTRONIC
U4003	996510020475	IC 78L05L SOT-89 UTC
U4004	996510020504	IC BA6951FS

ELECTRICAL PARTS LIST - TFT DRIVE BOARD

BT2000	996510020525	T-3386(UI9.8)
CN2	996510020491	F SOCKET 40P
CN2001	996510020487	FFC SOCKET 26P
CN2002	996510020488	FFC SOCKET 8P
CN2003	996510020492	FFC SOCKET 36P
CN2004	996510020527	SOCKET 2P
CON1	996510020488	FFC SOCKET 8P
D1	996510020503	SW DIODE
D2	996510020503	SW DIODE
D2000	996510019698	SCHTTKY DIODE RB551 0.5A 20V
D2001	996510019698	SCHTTKY DIODE RB551 0.5A 20V
D2002	996510020503	SW DIODE
D2003	996510020503	SW DIODE
D2004	996510020503	SW DIODE
D2005	996510020503	SW DIODE
D2006	996510020503	SW DIODE
D2007	996510020452	REC DIODE
D2008	996510020517	ZENER DIODE
D2009	996510020503	SW DIODE
FB2000	996510020516	CHIP BEAD
FB2001	996510020516	CHIP BEAD
FB2002	996510020516	CHIP BEAD
FB2003	996510020516	CHIP BEAD
FB2004	996510020516	CHIP BEAD
FB2005	996510020516	CHIP BEAD
GS1	996510020528	VM-700 GROUND SPRING
GS2	996510020528	VM-700 GROUND SPRING
L2001	996510019795	INDUCTOR 10uH
L2003	996510019795	INDUCTOR 10uH
L2004	996510020515	INDUCTOR 1.8uH 0805
L2005	996510020515	INDUCTOR 1.8uH 0805
L2006	996510020515	INDUCTOR 1.8uH 0805
L2007	996510019795	INDUCTOR 10uH
L2008	996510019795	INDUCTOR 10uH
L2009	996510019795	INDUCTOR 10uH
L2012	996510019795	INDUCTOR 10uH
L3	996510019795	INDUCTOR 10uH
LED16	996510019610	LED B/R
LED17	996510019610	LED B/R
LED18	996510019610	LED B/R
M1	996510019572	MOSFET AO3401
M109	996510019572	MOSFET AO3401
Q1	996510019571	TRANSISTOR 2N3904(NPN)
Q133	996510020462	TR KRC402 USM
Q2001	996510019571	TRANSISTOR 2N3904(NPN)
Q2002	996510019571	TRANSISTOR 2N3904(NPN)
Q2003	996510019571	TRANSISTOR 2N3904(NPN)
Q2004	996510019571	TRANSISTOR 2N3904(NPN)
Q2005	996510019571	TRANSISTOR 2N3904(NPN)
Q2006	996510019571	TRANSISTOR 2N3904(NPN)
Q2007	996510019570	TRANSISTOR MMBT3906LT1(PNP)
Q2008	996510019571	TRANSISTOR 2N3904(NPN)
Q4	996510020462	TR KRC402 USM
Q6	996510020462	TR KRC402 USM
Q7	996510020462	TR KRC402 USM
SW1	996510020518	TACT SW
SW2	996510020518	TACT SW
SW3	996510020518	TACT SW
U1	996510020494	IC PT6524LQ
U2001	996510020479	IC BA7071 SOP8 ROHM
U2002	996510020475	IC 78L05L SOT-89 UTC
U2003	996510020522	IC 74HC4538PW PHILIPS
U2005	996510019701	IC NJM3414AM SOP-8
U2006	996510020519	IC HEF4069UBT PHILIPS
U2007	996510020524	IC VP77-LF LQFP128
U2010	996510020523	IC AT24C02BN-10SU-1.8
U2011	996510020521	IC TSC2046IPWR TSSOP16 TI
U2016	996510019672	IC KIA78M08 DPAK KEC
U2017	996510020520	IC MP1015 TSSOP20 MPS
X2000	996510020526	TCXO 20.00M
ZD2000	996510019580	ESD DIODE PG05GBUSV 200W

Note: 1) **Only these parts mentioned in the list are normal service parts.**

2) **For Main Board & Servo Board & TFT Drive Board & USB/SD/AUX Board , module level repair can be a service option also.**

3) **For DVD Mechanism must be ordered with Servo board, the combined part is with code number 996510020532**

ONLY FOR CED750/51 & /98
MECHANICAL & ACCESSORIES PARTS LIST - OVERALL VIEW

4	996510031149	MAIN BOARD ASSM
5	996510031159	SERVO BOARD & DVD DRIVE /51
5	996510024015	SERVO BOARD & DVD DRIVE /98
7	(CLR)	FRONT PANEL ASS'Y
8	996510020529	RIM
9	(CLR)	TFT SCREEN ASS'Y
21	(CLR)	SLIDE BRACKET ASS'Y
ASS24	996510020435	I/O WIRE 19P
FFC1	996510020395	FFC 8P 1.0mm
FFC2	996510020396	FFC 24P 0.5mm
FFC3	996510020434	FFC 14P
KB1	996510020508	KEY BOARD ASSM
LCD1	996510027828	LCD MI ASSM
MB1	996510020394	FPC MB TO LOADER 50P
MB2	996510029962	50P CABLE MAIN TO TFT
MIC1	996510020244	EXTERNAL MICROPHONE 3M
RM0	996510020533	REMOTE CONTROL
TFT0	996510020514	TFT DRIVE BOARD ASSM
WIH2	996510031156	PWR WIRE 16P 15A 200MM /51
WIH2	996510020437	PWR WIRE 16P 15A 200MM /98
WIR2	996510020438	I/O WIRE 3P A/V
WIR3	996510020440	WIRE 2P 29mm 28#
WIR4	996510020442	WIRE 2P 1.25mm 80mm

REMARK: CLR=COMPONENTS LEVEL REPAIR

MECHANICAL PARTS LIST - FRONT PANEL ASS'Y

PAL10	996510027837	VOL KNOB
PAL15	996510020431	REM BKT
PAL17	996510020417	SRC BUTTON
PAL19	996510020425	EJECT BUTTON BKT
PAL2	996510020430	BT BUTTON 2
PAL20	996510020423	USB BKT
PAL21	996510020426	REMOTE LENS
PAL23	996510020433	GUIDE BKT
PAL24	996510020420	5D BUTTON
PAL25	996510020424	EJECT BUTTON
PAL3	996510020429	BT BUTTON 1
PAL44	996510020422	DIR LI-GUIDE
PAL5	996510020427	DECO BRZ+TI
PAL6	996510020428	DECO-PLT+TI
PAL7	996510020418	FRONT PANEL
PAL8	996510020432	BT BUT BKT
PAL9	996510027835	VOL LI-GUIDE

MECHANICAL PARTS LIST - BOTTOM COVER ASS'Y

BOT2	996510020392	VM-700 R-TRACK
BOT7	996510020388	VM-700 LEFT RACK
BOT9	996510020389	VM-700 RIGHT RACK
BOT11	996510020393	VM-700 L-TRACK

MECHANICAL PARTS LIST - SLIDE BRACKET ASS'Y

SLI20	996510020391	GEAR 6
SLI21	996510020387	GEAR 2
SLI22	996510020383	GEAR 3
SLI23	996510020369	GEAR 1
SLI24	996510020386	GEAR 4 PA
SLI25	996510027842	GEAR 5
SLI26	996510020385	BEVEL WHEEL-A
SLI28	996510027841	GEAR 7
SLI33	996510020384	BEVEL WHEEL-B

MECHANICAL PARTS LIST - TFT SCREEN ASS'Y

TFT1	996510020401	WIDE BUTTON
TFT11	996510027832	TFT LENS BLK
TFT12	996510027829	OPEN BUTTON
TFT13	996510020400	DISP BUTTON
TFT2	996510020411	TFT DOWN BUTTON
TFT24	996510020398	RE TFT PANEL
TFT26	996510020415	SCN BOT COVER S C T0.8
TFT3	996510020402	TFT UP BUTTON
TFT33	996510020413	TFT/A A070FW03-V4 7"
TFT34	996510020414	TOUCH SCREEN 7"
TFT38	996510020412	LCD FSTN F
TFT39	996510020409	SKB BKT SECC T0.6
TFT4	996510020407	BAND BUT BKT
TFT40	996510020408	LENS BKT
TFT41	996510020405	WIDE BUT BKT
TFT42	996510031166	FE TFT PANEL /51
TFT42	996510027831	FE TFT PANEL /98
TFT6	996510027834	OPEN BUT BKT
TFT7	996510020416	LENS BKT

ELECTRICAL PARTS LIST - USB/SD/AUX BOARD

CON1	996510020499	SOCKET 4P 2.0mm USB2.0
CON3	996510020502	FFC SOCKET 24P
CON4	996510019625	12P 2.5MM SD/MMC SOCKET
U1	996510020500	SOCKET EARPHONE

ELECTRICAL PARTS LIST - MOTOR DRIVE BOARD

CN4001	996510020506	FFC SOCKET 12P
D4000	996510020503	DIODE 1N4148 200mW 300mA
D4001	996510020503	DIODE 1N4148 200mW 300mA
D4002	996510020503	DIODE 1N4148 200mW 300mA
L4001	996510019710	INDUCTOR 10uH 0805
SW1	996510020501	TACT SW 7.5mm
U1	996510020500	SOCKET EARPHONE
U4000	996510020507	IC L7809CV TO-220 ST
U4001	996510020505	OPT. ELEC. COUNTER GP1S25
U4003	996510027838	IC 78L05L SOT-89 UTC
U4004	996510020504	IC BA6951FS

ELECTRICAL PARTS LIST - SERVO BOARD & DVD DRIVE

U104	996510031157	IC MX25L3205DM2I-12G 32M W/SW /51

ELECTRICAL PARTS LIST - KEY BOARD

CON3	996510020482	F SOCKET 14P
D1	996510020513	LED RED
D7	996510019822	LED GREEN 19-217/GHC-YRSM/3T
LED1	996510019610	LED B/R
LED10	996510019610	LED B/R
LED12	996510019610	LED B/R
LED13	996510019610	LED B/R
LED14	996510019610	LED B/R
LED15	996510019610	LED B/R
LED16	996510019610	LED B/R
LED17	996510019610	LED B/R
LED18	996510019610	LED B/R
LED19	996510019610	LED B/R
LED2	996510019610	LED B/R
LED20	996510019610	LED B/R
LED3	996510019610	LED B/R
LED4	996510019610	LED B/R
LED5	996510019610	LED B/R
LED6	996510019610	LED B/R
LED7	996510019610	LED B/R
LED8	996510019610	LED B/R
Q1	996510020462	TR KRC402 USM
Q2	996510020462	TR KRC402 USM
Q4	996510020462	TR KRC402 USM
Q5	996510020462	TR KRC402 USM
SW1	996510020512	TACT SW 7.5mm
SW10	996510020509	ENCODER
SW2	996510020512	TACT SW 4.3mm
SW3	996510020512	TACT SW 4.3mm
SW4	996510020512	TACT SW 4.3mm
SW7	996510020511	ROCKER SW
U5	996510020510	INFRARED RECEIVER
ZD1	996510019580	DIODE PG05GBUSV 200W 24A

ELECTRICAL PARTS LIST - LCD BOARD

BL1	996510020531	BACK LIGHT BH-H102SW
CON2	996510020488	FFC SOCKET 8P
K1	996510020518	TACT SW 2.5mm
K2	996510020518	TACT SW 2.5mm
K3	996510020518	TACT SW 2.5mm
K4	996510020518	TACT SW 2.5mm
LED1	996510019610	LED B/R 0603 25mA
LED2	996510019610	LED B/R 0603 25mA
LED3	996510019610	LED B/R 0603 25mA
Q2	996510020462	TR KRC402 USM
Q3	996510020462	TR KRC402 USM

ELECTRICAL PARTS LIST - MAIN BOARD

ANT2	996510020450	I/O 2P FM-ANT
BEEP1	996510020444	BUZZER HC12-105B
CN111	996510020451	SOCKET 12P 2.0mm DIP90
CN2	996510020448	SOCKET 7P 2.0mm DIP180
CN5	996510031152	SOCKET 16P 2.5MM DIP 90 /51
CN5	996510020486	SOCKET 16P 2.5MM DIP 90 /98
CN6	996510020484	FFC SOCKET 8P 1.0mm
CN7	996510027833	FFC SOCKET 50P 0.5mm /51
CN7	996510020485	FFC SOCKET 50P /98
CN8	996510027833	FFC SOCKET 50P 0.5mm /51
CN8	996510020485	FFC SOCKET 50P /98
CON1002	996510020482	FPC SOCKET 14P 0.5mm UP
CON4	996510020489	FFC SOCKET 24P 0.5mm
CON5	996510020483	SOCKET 2P 1.25mm

ELECTRICAL PARTS LIST - MAIN BOARD

D1	996510020503	DIODE 1N4148 200mW 300mA /51
D1	996510020452	DIODE 1N4004 3A 1V 400V /98
D101	996510020456	REC DIODE 1SR154 1A 400V
D104	996510020456	REC DIODE 1SR154 1A 400V
D106	996510020503	DIODE 1N4148 200mW 300mA
D116	996510020503	DIODE 1N4148 200mW 300mA
D12	996510020447	TVS DIODE 5KP24A-E3/54 8W 600A
D13	996510020452	REC DIODE 1N4004 3A 1V 400V
D130	996510020503	DIODE 1N4148 200mW 300mA
D136	996510020495	SCHOT DIODE RB055L-40 40V 3A
D137	996510020495	SCHOT DIODE RB055L-40 40V 3A
D138	996510020503	DIODE 1N4148 200mW 300mA
D14	996510020452	REC DIODE 1N4004 3A 1V 400V
D140	996510020503	DIODE 1N4148 200mW 300mA
D15	996510020452	REC DIODE 1N4004 3A 1V 400V
D16	996510020503	DIODE 1N4148 200mW 300mA
D17	996510020452	REC DIODE 1N4004 3A 1V 400V
D18	996510020452	REC DIODE 1N4004 3A 1V 400V
D19	996510020503	DIODE 1N4148 200mW 300mA
D2	996510020503	DIODE 1N4148 200mW 300mA
D20	996510020503	DIODE 1N4148 200mW 300mA
D27	996510020503	DIODE 1N4148 200mW 300mA
D28	996510020452	REC DIODE 1N4004 3A 1V 400V
D29	996510020452	REC DIODE 1N4004 3A 1V 400V
D3	996510020452	REC DIODE 1N4004 3A 1V 400V
D4	996510020452	REC DIODE 1N4004 3A 1V 400V
D41	996510020459	DIODE IMSA-6801-01Y901
D5	996510020503	DIODE 1N4148 200mW 300mA
D6	996510020456	REC DIODE 1SR154 1A 400V
D7	996510020456	REC DIODE 1SR154 1A 400V
D8	996510020503	DIODE 1N4148 200mW 300mA
D9	996510020452	REC DIODE 1N4004 3A 1V 400V
EC101	996510020446	E.CAP 4700uF ±20% 16V 105℃
EC102	996510020446	E.CAP 4700uF ±20% 16V 105℃
EC18	996510027872	CAP 0.22F 5.5V 10.5*5.5 /51
EC18	996510020449	CAP 0.047F 5.5V /98
F1	996510020458	FUSE 1812FSMD110 1.1A 6V
FAN	996510020443	FAN DFB251012M YLTC
FU1	996510020457	FUSE FSMD020-1206 0.2A 8V
FU108	996510020457	FUSE FSMD020-1206 0.2A 8V
FU2	996510020457	FUSE FSMD020-1206 0.2A 8V
FU3	996510020457	FUSE FSMD020-1206 0.2A 8V
L11	996510020465	INDUCTOR 100uH CD43
L12	996510020466	POWER INDUCTOR
L120	996510020466	POWER INDUCTOR
M1	996510031014	MOSFET AO3401A SOT-23
M10	996510019712	MOSFET 2SK3018 UMT3
M100	996510031147	MOSFET AO4419 SO-8 AOS
M101	996510031147	MOSFET AO4419 SO-8 AOS
M102	996510031147	MOSFET AO4419 SO-8 AOS
M2	996510031014	MOSFET AO3401A SOT-23
M3	996510031014	MOSFET AO3401A SOT-23
M5	996510031014	MOSFET AO3401A SOT-23
M8	996510019712	MOSFET 2SK3018 UMT3
M9	996510031014	MOSFET AO3401A SOT-23
MDL4	996510020445	TUNER FM/OIRT/AM/LM
PD1	996510020503	DIODE 1N4148 200mW 300mA
PD2	996510020503	DIODE 1N4148 200mW 300mA
PL9	996510020466	PWR INDUCTOR 2.5uH ±20% 1.5A
Q1	996510019571	TRANSISTOR 2N3904(NPN)
Q100	996510020462	TR KRC402 USM
Q107	996510020464	TR KTC4375Y SOT-89 KEC
Q11	996510020462	TR KRC402 USM
Q110	996510020461	TR KRA304 USM
Q113	996510019571	TRANSISTOR 2N3904(NPN)
Q115	996510020463	TR KTD1304 SOT-23 KEC
Q117	996510020463	TR KTD1304 SOT-23 KEC
Q118	996510020461	TR KRA304 USM
Q120	996510020493	TR KN12907A SOT-23
Q121	996510020493	TR KN12907A SOT-23
Q122	996510019571	TRANSISTOR 2N3904(NPN)
Q123	996510020461	TR KRA304 USM
Q124	996510020463	TR KTD1304 SOT-23 KEC
Q127	996510020463	TR KTD1304 SOT-23 KEC
Q13	996510019571	TRANSISTOR 2N3904(NPN)
Q137	996510019571	TRANSISTOR 2N3904(NPN)
Q138	996510019571	TRANSISTOR 2N3904(NPN)
Q139	996510019571	TRANSISTOR 2N3904(NPN)
Q141	996510019570	TRANSISTOR MMBT3906LT1
Q18	996510020461	TR KRA304 USM
Q2	996510019571	TRANSISTOR 2N3904(NPN)
Q24	996510020461	TR KRA304 USM
Q3	996510019571	TRANSISTOR 2N3904(NPN)
Q31	996510020462	TR KRC402 USM
Q34	996510019571	TRANSISTOR 2N3904(NPN)
Q36	996510020462	TR KRC402 USM
Q5	996510020463	TR KTD1304 SOT-23 KEC
Q6	996510020462	TR KRC402 USM
Q7	996510019571	TRANSISTOR 2N3904(NPN)
Q8	996510020463	TR KTD1304 SOT-23 KEC
Q9	996510020462	TR KRC402 USM
RN128	996510020481	V-RES AVX 0603*4 10p 18V
RN7	996510020481	V-RES AVX 0603*4 10p 18V
SD5	996510019698	SCHTTKY DIODE RB551 0.5A 20V
SD6	996510019698	SCHTTKY DIODE RB551 0.5A 20V
TC106	996510027839	TAN.CAP 220uF /51
TC106	996510020496	TAN.CAP 220uF /98
U1	996510019656	IC TDA7419TR SO28 ST
U100	996510019650	IC E-TDA7386 FLEXIWATT25 ST
U101	996510019672	IC KIA78M08 DPAK KEC
U105	996510020490	IC TL1451ACD SOIC16
U11	996510031148	IC 78L05 SOT-89 UTC /51
U11	996510020475	IC 78L05L SOT-89 UTC /98
U119	996510019672	IC KIA78M08 DPAK KEC
U13	996510020469	IC XC6202P332PR
U134	996510020467	IC LD1117A-1.8V
U15	996510020468	IC RT9161A-50X
U16	996510020468	IC RT9161A-50X
U2	996510020476	IC 78L09 SOT-89 KEC
U20	996510019713	IC UTC4558 SOP-8
U21	996510020474	IC 74HC4053PW TSSOP-1
U23	996510020477	IC 79L05 SOT-89 UTC
U3	996510020480	IC BA6287F SOP-8 ROMH
U44	996510031158	IC ATMEGA1280-16AU W/SW /51
U44	996510020478	IC ATMEGA1280-16AU W/SW /98
U45	996510020472	IC 74HCT4052DB SSOP16
U48	996510020473	IC 74HC00 SOP14
U50	996510019713	IC UTC4558 SOP-8
U61	996510020479	IC BA7071 SOP8 ROHM
U8	996510019659	IC FMS6502 TSSOP24
U902	996510031373	MODULE BLUETOOTH CED750

ELECTRICAL PARTS LIST - MAIN BOARD

X3	996510020470	TCXO 8.00M ±15ppm 20pF
ZD1	996510020454	ZENER DIODE 5.6V 300mW
ZD105	996510020453	ZENER DIODE 18V 300mW
ZD107	996510020453	ZENER DIODE 18V 300mW
ZD16	996510020455	ZENER DIODE 3.3V 300mW
ZD17	996510020471	ZENER DIODE 4.3V ±0.3V SOD323
ZD18	996510019580	DIODE PG05GBUSV 200W 24A
ZD2	996510019580	DIODE PG05GBUSV 200W 24A
ZD3	996510020455	ZENER DIODE 3.3V 300mW
ZD35	996510019580	DIODE PG05GBUSV 200W 24A

ELECTRICAL PARTS LIST - TFT DRIVE BOARD

BT2000	996510020525	TRASFO T-3386(UI9.8)
CN2	996510020491	FPC SOCKET 40P 0.5mm DOWN
CN2001	996510020487	FFC SOCKET 26P 0.5mm
CN2002	996510020488	FFC SOCKET 8P 0.5mm
CN2003	996510020492	FPC SOCKET 36P 0.5mm UP
CN2004	996510020527	SOCKET 2P PWR
CON1	996510020488	FFC SOCKET 8P 0.5mm
D1	996510020503	DIODE 1N4148 200mW 300mA
D2	996510020503	DIODE 1N4148 200mW 300mA
D2000	996510019698	SCHTTKY DIODE RB551 0.5A 20V
D2001	996510019698	SCHTTKY DIODE RB551 0.5A 20V
D2002	996510020503	DIODE 1N4148 200mW 300mA
D2003	996510020503	DIODE 1N4148 200mW 300mA
D2004	996510020503	DIODE 1N4148 200mW 300mA
D2005	996510020503	DIODE 1N4148 200mW 300mA
D2006	996510020503	DIODE 1N4148 200mW 300mA
D2007	996510020452	REC DIODE 1N4004 3A 1V 400V
D2008	996510020517	ZENER DIODE 11V 300mW
D2009	996510020503	DIODE 1N4148 200mW 300mA
FB2000	996510020516	CHIP BEAD 0603 600R
FB2001	996510020516	CHIP BEAD 0603 600R
FB2002	996510020516	CHIP BEAD 0603 600R
FB2003	996510020516	CHIP BEAD 0603 600R
FB2004	996510020516	CHIP BEAD 0603 600R
FB2005	996510020516	CHIP BEAD 0603 600R
GS1	996510020528	GROUND SPRING
GS2	996510020528	GROUND SPRING
L2001	996510019795	INDUCTOR 10uH 0805
L2003	996510019795	INDUCTOR 10uH 0805
L2004	996510020515	INDUCTOR 1.8uH 0805
L2005	996510020515	INDUCTOR 1.8uH 0805
L2006	996510020515	INDUCTOR 1.8uH 0805
L2007	996510019795	INDUCTOR 10uH 0805
L2008	996510019795	INDUCTOR 10uH 0805
L2009	996510019795	INDUCTOR 10uH 0805
L2012	996510019795	INDUCTOR 10uH 0805
L3	996510019795	INDUCTOR 10uH 0805
LED16	996510019610	LED B/R 0603 25mA
LED17	996510019610	LED B/R 0603 25mA
LED18	996510019610	LED B/R 0603 25mA
M1	996510019572	MOSFET AO3401
M109	996510019572	MOSFET AO3401
Q1	996510019571	TRANSISTOR 2N3904(NPN)
Q133	996510020462	TR KRC402 USM
Q2001	996510019571	TRANSISTOR 2N3904(NPN)
Q2002	996510019571	TRANSISTOR 2N3904(NPN)
Q2003	996510019571	TRANSISTOR 2N3904(NPN)
Q2004	996510019571	TRANSISTOR 2N3904(NPN)
Q2005	996510019571	TRANSISTOR 2N3904(NPN)
Q2006	996510019571	TRANSISTOR 2N3904(NPN)
Q2007	996510019570	TRANSISTOR MMBT3906LT1
Q2008	996510019571	TRANSISTOR 2N3904(NPN)
Q4	996510020462	TR KRC402 USM
Q6	996510020462	TR KRC402 USM
Q7	996510020462	TR KRC402 USM
SW1	996510020518	TACT SW 2.5mm
SW2	996510020518	TACT SW 2.5mm
SW3	996510020518	TACT SW 2.5mm
U1	996510020494	IC PT6524LQ
U2001	996510020479	IC BA7071 SOP8 ROHM
U2002	996510020475	IC 78L05L SOT-89 UTC
U2003	996510020522	IC 74HC4538PW PHILIPS
U2005	996510019701	IC NJM3414AM SOP-8
U2006	996510020519	IC HEF4069UBT PHILIPS
U2007	996510020524	IC VP77-LF LQFP128
U2010	996510020523	IC AT24C02BN-10SU-1.8
U2011	996510020521	IC TSC2046IPWR TSSOP16 TI
U2016	996510019672	IC KIA78M08 DPAK KEC
U2017	996510020520	IC MP1015 TSSOP20 MPS
X2000	996510020526	TCXO 20.00M
ZD2000	996510019580	DIODE PG05GBUSV 200W 24A

Note:

1) **Only these parts mentioned in the list are normal service parts.**

2) **For Main Board & Servo Board & TFT Drive Board , module level repair can be a service option also.**

3) **For DVD Mechanism must be ordered with Servo board.**

REVISION LIST

1.0 Manual 3141 785 33260

Initial Service Manual released.

1.1 Manual 3141 785 33621

In this version, version /94 added.
In Chapter 12, Mechanical & Electrical Parts List updated.

1.2 Manual 3141 785 33622

In this version, version /98 added.
In Chapter 12, Mechanical & Electrical Parts List updated.

1.3 Manual 3141 785 33623

In this version, version /51 added.
In Chapter 12, Mechanical & Electrical Parts List updated.